

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from May 1, 1927.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 years†	2 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

LIST OF APPLICANTS.

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The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *Italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

FOR ADMISSION

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(7) **ALSIN, WILLIAM MCKINLEY**, 732 Eighteenth St., Des Moines, Iowa. (Age 33. Born Boone, Iowa.) Registered Prof. Engr., State of Iowa. 1922 B. S. in Civ. Eng., Iowa State Coll. *TT 2: SP 2*. Summer 1920 Rodman and Instrumentman with County Engr., Boone County, Iowa. Summers 1921 and 1922 Paving Inspector, City of Ames, Iowa, acting as Plant Inspector. *TT 0.3: SP 0.3*. Sept. 1922 to July 1924 teaching engineering and (summer 1923) Campus Engr., Iowa State Coll. *TT 1.8: P 1.8: RC 1.8*. July 1924 to Aug. 1925 Plant Mgr., Engr. and Salesman, Ames (Iowa) Sand & Gravel Co. *TT 1: P 1: RC 1*. Aug. 1925 to March 1926 with J. & W. A. Elliott Constr. Co., Minneapolis, Minn., as Asst. Supt. on building construction at Ames, Iowa. *TT 0.7: P 0.7: RC 0.7*. March 1926 to April 1927 with Brown & Cook Eng. Co., Ottumwa, Iowa, on paving, sewers, water-works and general municipal engineering. *TT 1: P 1: RC 1*. April 1927 to date with Atlas Lumnite Cement Co., on promotional and technical work. *TT 0.1: P 0.1: RC 0.1*. *TT 6.9: SP 2.3: P 4.6: RC 4.6*. Refers to T. R. Agg, P. F. Critz, A. H. Fuller, J. H. Griffith, P. F. Hopkins, W. E. Jones, Jr., C. S. McArdle, A. Marston.

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(11) **ARNOLD, CARL EUGENE**, 133 East Palm St., Bellflower, Cal. (Age 43. Born Bingham, Iowa.) 1909 B. S., Univ. of Cal. *TT 2: SP 2*. July 1909 to Jan. 1912 Asst. Engr., Sacramento Valley Irrigation Co., in charge surveys and design. *TT 2.5: P 2.5: RC 2: D 0.5*. Jan. 1912 to July 1913 Engr. in charge of construction, Sacramento Valley Sugar Co., installation of pumping plants and design and construction of irrigation system. *TT 1.5: P 1.5: RC 1: D 0.5*. July 1913 to April 1915 Asst. to County Surveyor of Yolo County, surveys and reclamation work. *TT 1.9: P 1.9*. April 1915 to Sept. 1918 City Engr., Woodland, Cal., on street paving, sanitary sewers and water-system extension. *TT 3.5: P 3.5: RC 2.5: D 1*. Sept. 1918 to Jan. 1921 Asst. to Supt., Montana Land Co., on irrigation and drainage work. *TT 2.2: P 2.2*. Jan. to March 1921 on private work. *TT 0.3: P 0.3: RC 0.3*. March 1921 to Jan. 1922 Asst. to Supt. of Const., Thomas Haverly Co., Los Angeles, on construction of sanitary sewers. *TT 0.7: P 0.7*. Jan. to Sept. 1922 surveys and subdivisions (private work). *TT 0.8: P 0.8: RC 0.8*. Sept. 1922 to April 1924 in charge of construction for Chf. Engr., Union Oil Co., Los Angeles, on ground-storage reservoirs, steel tanks, Foamite system and absorption plant. *TT 1.5: P 1.5: RC 1*. April 1924 to date Constr. Engr. for County Surveyor, in charge of design and construction of storm drainage and of construction of ornamental lighting and sanitary sewer improvements. *TT 3: P 3: RC 3*. *TT 19.9: SP 2: P 17.9: RC 10.6: D 3*. Refers to F. Bates, C. Derleth, Jr., A. Jones, A. M. Rawn, R. J. Reed, J. E. Rockhold, C. H. Shaw.

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(10) **BAKER, WILLIAM CECIL**, U. S. Engr. Office, Chattanooga, Tenn. (Age 28. Born Knoxville, Tenn.) 1923 B. A., Univ. of Va. *TT 2: SP 2*. Aug. 1923 to Dec. 1924 Trouble Despatcher, Edison Elec. Illuminating Co. of Boston, directing repairs on transmission and distribution circuits. *TT 1.3: P 1.3*. Jan.-March 1925 general field and office work (Civ. Engr.), Knoxville (Tenn.) Water Dept., traverses, topography, levels, etc. *TT 0.2: SP 0.2*.

April to Oct. 1925 with U. S. Engr. Dept., Chattanooga (Tenn.) Dist., Topographer, and Oct. 1925 to date Topography Eng. Field Aid and Asst. Hydro-Elec. Engr., investigations, etc. *TT 2: SP 0.6: P 1.4: TT 5.5: SP 2.8: P 2.7.* Refers to F. W. Albert, G. C. Haydon, W. R. King, E. E. Teeter, A. H. Van Cleave.

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(2) **BARKER, STANLEY TRUMAN**, 34 Shepard St., Cambridge, Mass. (Age 32. Born Red Deer, Alberta, Canada.) 1915 A. B., Harvard Coll. 1920 S. B., Harvard Eng. School. *TT 2: SP 2.* Nov. 1915 to Oct. 1917 and April to Sept. 1919 Deck Officer, Aid, Jun. Hydrographer and Geodetic Engr., U. S. Coast and Geodetic Survey, on surveys. *TT 2.5: SP 0.5: P 2: RC 0.5.* Oct. 1917 to April 1919 Lieut. (J. g.) and Lieut., U. S. Naval Reserve Force, on board combatant ship, etc. July to Dec. 1920 Jun. Engr., San. Dist. of Chicago, drafting design and computations. *TT 0.4: P 0.4: D 0.2.* Dec. 1920 to April 1924 Asst. and Senior Asst. San. Engr., Illinois State Dept. of Public Health, sanitary investigations, checking design and operating water- and sewage-treatment plants, etc. *TT 3.3: P 3.3: RC 1.1:* April 1924 to March 1927 Engr. and Supt., Newark Concrete Pipe Co., in charge of manufacture of plain and reinforced concrete pipes, designing pressure joints for concrete pressure pipe. *TT 3: P 3: RC 3: D 0.4.* *TT 11.2: SP 2.5: P 8.7: RC 4.6: D 0.6.* Refers to R. L. Faris, H. F. Ferguson, N. H. Heck, E. L. Jones, G. T. Rude, C. D. Watson.

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(11) **BARNARD, RUSSELL EDWIN**, Care, R. Hardesty Mfg. Co., Denver, Colo. (Age 33. Born Denver, Colo.) 1916 B. S. in Civ. and Irrigation Eng., Colo. State Agril. Coll. *TT 2: SP 2.* July to Nov. 1916 Hydrographer, San Luis Valley Land & Min. Co., Crestone, Colo. *TT 0.3: SP 0.3.* Nov. 1916 to April 1917 Draftsman, successively for Hardesty Mfg. Co., tracing and detailing irrigation equipment, and (after Feb. 1917) Stearns-Roger Mfg. Co., detailing sugar pulp drying machinery, Denver, Colo. *TT 0.4: SP 0.4.* April 1917 Map Draftsman, U. S. Forest Service, Denver. *TT 0.1: SP 0.1.* May 1917 to Oct. 1918 Draftsman and Checker, and finally Asst. in charge of bridge draftsmen, Chicago, Burlington & Quincy R. R., Lincoln, Nebr., on maintenance of way drafting, 1½ years detailing and checking railroad and highway bridges, calculations in timber, concrete and steel construction. *TT 1.4: SP 1.4.* Oct. 1918 to March 1919 Draftsman, Constr. Q. M. Corps, U. S. Army, Camp Beauregard, La., acted as Chf. of Party on survey work. *TT 0.4: SP 0.4.* March to Aug. 1919 Draftsman, Producers & Refiners Corporation, Denver, oil maps, building details, etc. *TT 0.4: SP 0.4.* Aug. 1919 to March 1920 Chf. Draftsman and Asst. to Chf. Engr., Sinclair Oil Corporation, Ft. Worth, Tex., in charge of drafting room, map making, keeping records, etc. *TT 0.6: SP 0.6.* March to July 1920 Map Draftsman, Heydric Mapping Co., Dallas. *TT 0.3: SP 0.3.* Sept. 1920 to date with R. Hardesty Mfg. Co., until Feb. 1921 as Designing Draftsman on irrigation equipment, then Asst. Chf. Engr. in full charge of drafting room and shop and since Jan. 1922 Chf. Engr. in full charge of all designing, detailing, fabrication and installation of irrigation equipment, flumes, gates, pipe lines, structural work, etc., also responsible for research work, etc. *TT 6.5: SP 0.4: P 6.1: RC 6.1: D 6.1.* *TT 12.5: SP 6.4: P 6.1: RC 6.1: D 6.1.* Refers to A. W. Andrews, F. T. Darrow, J. Hinds, W. H. Nalder, R. L. Parshall, F. H. Pickett, C. Rohwer.

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(15) **BELL, FRANK FREDERICK**, 6263 Richmond Ave., Dallas, Tex. (Age 38. Born Philadelphia, Pa.) 1910 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Oct. 1910 to Nov. 1911 Engr. and Foreman of core drilling and grouting on construction of Estacada Dam near Portland, Ore.; Portland R. R., Light & Power Co., Owners. *TT 1: SP 1.* Dec. 1911 to July 1912 drilling and quarry testing for contractors of Hilo (Hawaii) Breakwater; Concrete Foreman on dock, railroad and concrete reservoir construction, successively at Singapore, Ceylon and outside of Aden for various engineers. Aug. 1912 to Jan. 1913 Field Asst. Engr., Panama Pacific International Exposition Co., San Francisco, Cal., on construction, in charge of test borings and ground exploration for foundations; also instrument work. *TT 0.5: SP 0.5.* Feb 1913 to March 1914 Engr., Wood-Stave Pipe Dept., Redwood Mfrs. Co., San Francisco, estimating, securing contracts, designing lines, trestles, wood-stave pipe and fittings, etc. *TT 1: P 1: RC 1: D 0.7.* April 1914 to July 1917 Pres. and Gen. Mgr., Simplex Vacuum Mfg. Co., Philadelphia, Pa.; work included charge of design and installation of new plant for manufacturing vacuum bottles and accessories. *TT 1.6: P 1.6: RC 1.6: D 0.8.* 1917 to Jan. 1919 with U. S. Army, until Aug. 1918 as 1st Lieut., Signal Res. Corps, Aviation Sec., then Capt., R. Mil. Aviator Air Service, from Aug. to Nov. 1917 being Asst. Engr. Officer, Aviation Field, Essington, Pa., and July to Nov. 1918 Asst. Engr. Officer and Nov. 1918 to Jan. 1919 Acting Engr. Officer, Gerstner Field, La., in motor-repair, aeroplane repair and post-transportation shops and general maintenance and post upkeep engineering, etc. *TT 0.8: P 0.8: RC 0.8: D 0.3.* Feb. to Aug. 1919 Chf. of Allotment and Allowance Div., Bureau of War Risk Insurance, Washington, D. C. Aug. 1919 to May 1920 Engr. for Henry D. Lindsley & Associates

Oil Syndicate, in charge of all field operations, production and field design, reports on scouting, etc. *TT 0.8: P 0.8: RC 0.8: D 0.2.* June 1920 to date Mgr., Contr. Dept., and since June 1924 also Vice-Pres., Uvalde Paving Co., Dallas, Tex., street paving, highway construction, some storm sewer contracts. *TT 3.5: P 3.5: RC 3.5: D 0.5.* *TT 11.2: SP 3.5: P 7.7: RC 7.7: D 2.5.* Refers to S. Baker, W. P. Bentley, G. H. Edwards, G. D. Fairtrace, A. Gardner, O. H. Koch, E. L. Myers, E. N. Noyes, J. F. Partridge, W. J. Powell, H. A. Rands, R. W. Willard, R. J. Windrow, E. A. Wood.

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(1) **BERWICK, WILLIAM EVANS**, 8437-148th St., Richmond Hill, N. Y. (Age 26. Born Richmond Hill, N. Y.) Feb. 1918 to Oct. 1919 and April to Oct. 1920 Draftsman, Pennsylvania R. R., acting as Rodman and Transitman. *TT 2.2 SP 2.2.* Oct. 1919 to April 1920 Rodman, Fraser Brace & Co., New York City, on dam and transmission-line construction. *TT 0.5: SP 0.5.* May 1923 to Feb. 1924 Chf. of Party, Terry & Tench Co., survey work for construction of Bear Mountain Bridge. *TT 0.8: P 0.8.* June to Oct. 1925 Chf. of Party, Pennsylvania State Highways, on preliminary surveys. *TT 0.3: P 0.3.* April to Dec. 1926 Jun. Engr., New York Central R. R., in charge of surveys and layouts for grade-crossing eliminations. *TT 0.7: SP 0.2: P 0.5.* *TT 4.5: SP 2.9: P 1.6.* Refers to J. M. Belknap, G. C. Clarke, J. Fergie, C. E. Fraser, A. J. Provost, Jr.

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(1) **BLIZNIAK, EUGENIUS BARTHOLOMEW**, 8 Gorokhovskaya St., Moscow, U. S. S. R. (Age 46. Born Mstislavl, Russia.) 1904 Engr. of Ways of Communication, Inst. Civ. Eng., Petersburg, Russia. *TT 2: SP 2.* 1904 to 1914 Asst. to Chf. Supervisor, later Chf. Supervisor, on investigations of waterways and preparation of projects in connection with waterway engineering, being responsible for preparation of number of works on hydrology, hydrography and waterway engineering. *TT 10: P 10: RC 8: D 8.* 1914 to date in responsible charge of bridge and highway engineering work; was Chf. Engr. in charge of design of Volga Don Canal and Director of Central Technical (Administration) Direction of Waterways; at present Vice-Pres., Scientific Technical Committee of Commissariat of Ways of Communications, Prof. of Waterways and Hydrotechnics in Moscow High Schools of Technics and in Inst. of Transport Engrs., Chairman, Moscow Sec., Inst. of Hydrology, and Editor, *Water Transport*. *TT 12: P 12: RC 12: D 8.* *TT 24: SP 2: P 22: RC 20: D 20.* Refers to N. Cosores, J. B. Egiazaroff, S. de Karelscha, S. P. Maximoff, V. V. Tchikoff, V. E. Timonoff

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(4) **BOOTH, ARCHIBALD ALLAN KIRSCHNER**, 462 Lyceum Ave., Roxborough, Philadelphia, Pa. (Age 24. Born Rangoon, Burma.) Sept. 1922 to Feb. 1925 Student, Sibley Coll., Cornell Univ. *TT 0.7: SP 0.7.* Dec. 1925 to Jan. 1927 Draftsman, Hay Foundry & Iron Works, Newark, N. J. *TT 1.1: SP 1.1.* Feb. to Oct. 1925 and Jan. 1927 to date Draftsman, American Bridge Co., at Elmira and Pencoyd Plants. *TT 0.9: SP 0.9.* *TT 2.7: SP 2.7.* Refers to H. M. Beaumont, F. L. Castleman, R. T. Lewis, H. W. Preston, J. E. Wadsworth, G. J. Watson.

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(4) **BOWEN, JOHN EDMUND**, Holland, Pa. (Age 22. Born Orelan, Pa.) 1927 graduated in Civ. Eng., Drexel Evening School. Feb. 1924 to date Rodman and Draftsman Reading Co., designing and detailing bridges. *TT 3.2: SP 3.2.* Refers to P. S. Baker, C. Dillenbeck, R. J. Lawrence, F. G. Schworm, W. Sebastian.

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(10) **BRAYTON, LEE OMAR**, 809 St. Johns St., Dyersburg, Tenn. (Age 41. Born Poland, N. Y.) 1909 Civ. Eng., Syracuse Univ. *TT 2: SP 2.* June 1909 to March 1911 Chainman, Rodman and Inspector, New York Central R. R., on construction and location, at Corning, N. Y. *TT 1.7: SP 1.7.* March 1911 to Dec. 1912 Instrumentman and Asst. Engr. with City Engr., Ithaca, N. Y., installing water system, including construction of 55-ft. concrete dam. *TT 1.8: SP 0.8: P 1: D 0.2.* Dec. 1912 to Feb. 1913 Asst. on Engr. Corps, Constr. Dept., Chicago & Eastern Illinois R. R., Salem, Ill., double-tracking. *TT 0.2: SP 0.2.* Feb. to June 1913 Asst. Engr., Maintenance Dept., New York, New Haven & Hartford R. R., at New Haven, Conn. *TT 0.3: P 0.3.* June 1913 to Nov. 1914 Levelman and Nov. 1915 to July 1916 Asst. Engr. on drainage and sewer system at Humboldt, Tenn., and Mounds, Ill., with L. T. Berthe, Charleston, Mo. *TT 2.1: SP 0.4: P 1.7: D 0.6.* Nov. 1914 to Nov. 1915 Inspector, War Dept., Memphis, Tenn., on levee work. *TT 1: SP 1.* July 1916 to date Cons. and Superv. Engr., on street work for City of Dyersburg (\$1 000 000), paving for Halls (\$85 000), Milan (\$300 000), Tiptonville, Henderson and Newbern, Tenn., also sewer system for Halls (\$80 000) and hard roads for Dyer County (\$1 670 000). *TT 10.7: P 10.7: RC 7: D 4.7.* *TT 19.8: SP 6.1: P 13.7: RC 7.4: D 5.5.* Refers to R. H. Baker, C. N. Bass, L. T. Berthe, A. S. Fry, F. V. Ragsdale, W. F. Shaw, R. M. Strohl, F. L. Wilcox.

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(2) **BROUSSEAU, GEORGE FRED**, 1300 Statler Bldg., Boston, Mass. (Age 22. Born Putnam, Conn.) 1927 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Aug. 1926 to date Jun. Engr. with Metcalf & Eddy, Boston, Mass., on sewage-treatment plant design. *TT 0.5: SP 0.5. TT 2.5: SP 2.5.* Refers to J. B. Babcock, 3d, H. K. Barrows, W. M. Fife, J. W. Howard, F. A. Marston, A. L. Shaw.

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(6) **BROWN, ALBERT ABRAHAM**, 2329 Eldridge St., Pittsburgh, Pa. (Age 27. Born New York City.) 1925 B. S., Carnegie Inst. Tech. *TT 2: SP 2.* Aug. 1918 to Aug. 1921 Chemist, Fiske Bros. Refining Co., Newark, N. J. *TT 3: SP 3.* Aug. 1925 to Aug. 1926 with Jones & Laughlin Steel Corporation, Keystone Works, Pittsburgh, Pa., estimating steel and structural drafting. *TT 1: SP 1.* Aug. 1926 to March 1927 with Luken Steel Co., New Orleans, La., on structural drafting and checking. *TT 0.5: SP 0.5. TT 6.5: SP 6.5.* Refers to C. G. Dunnells, B. F. Hastings, F. M. McCullough, G. P. Rice, C. B. Stanton.

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(8) **BROWN, WILL KENNETH**, 213 East Clark, Champaign, Ill. (Age 22. Born Toledo, Ohio.) 1925 B. S. in C. E., Univ. of Tex. *TT 2: SP 2.* Summer 1920 Rodman, Southern Pacific R. R., surveying and drafting. Summer 1924 Concrete Inspector, Wichita County Water Improvement Dist. No. 1, on structures for irrigation canals. Sept. 1925 to date Research Graduate Asst., Univ. of Illinois, graduate study and research work. *TT 1.4: P 1.4.* July to Sept. 1926 with Illinois Power & Light Corporation, as Draftsman and Instrumentman on transmission line construction. *TT 0.2: SP 0.2. TT 3.6: SP 2.2: P 1.4.* Refers to H. Cross, W. C. Huntington, M. S. Ketchum, T. D. Mylrea, T. C. Shedd, W. M. Wilson.

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(4) **CAMPBELL, LYLE LOWREY**, 551 North Duke St., Lancaster, Pa. (Age 35. Born Orangeville, Ont., Canada.) 1913 B. A. Sc. and Eng., Univ. of Toronto. *TT 2: SP 2.* July 1915 to Nov. 1922 with Hydro-Elec. Power Comm. of Ontario, as follows: July 1915-Sept. 1916 Prin. Asst. to Dist. Engr., Ottawa, on surveys, acting as Chf. of Sub-Party and Instrumentman; Oct. 1916-Nov. 1917 Dist. Engr. in charge surveys; Dec. 1917-Feb. 1922 Asst. Hydr. Engr. on studies and designs for Queenston-Chippawa Power Development; March to Nov. 1922 Field Engr. on power-plant location surveys, design and layout of power plants. *TT 7.4: SP 1.3: P 6.1: RC 1.5: D 4.6.* Nov. 1922 to June 1926 with Works Dept. Sewer Sec., Toronto, alternating on surveys, design, layout and construction of trunk and intercepting sewers and pumping station. *TT 3.6: P 3.6: RC 1.8: D 1.8.* June 1926 to date with Fuller & McClintock, Engrs., New York City, until Nov. 1926 as Asst. Res. Engr. on investigation for relief sewers and sewage-treatment works for New Haven, Conn., and since then Res. Engr. on preliminary investigations and designs for relief sewers and sewage-treatment works for Lancaster, Pa. *TT 0.8: P 0.8: RC 0.6: D 0.2. TT 13.8: SP 3.3: P 10.5: RC 3.9: D 6.6.* Refers to H. G. Acres, C. A. Emerson, Jr., G. W. Fuller, R. L. Hearn, G. A. McCarthy, G. F. Paterson

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(1) **CLARK, JASON**, 222 Martense St., Brooklyn, N. Y. (Age 26. Born Williston, Vt.) 1924 C. E., Cornell Univ. *TT 2: SP 2.* March 1924 to date with Turner Constr. Co., New York City, successively as Job Accountant, Line and Graderman and Asst. Supt. *TT 3: SP 3. TT 5: SP 5.* Refers to H. B. Pope, H. C. Seward.

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(1) **CLARK, SAMUEL CUSHMAN**, 55 Hanson Pl., Brooklyn, N. Y. (Age 21. Born Lead, S. Dak.) 1926 B. S. in C. E., S. Dak. State School of Mines. *TT 2: SP 2.* June 1926 to date Structural Steel Detailer with Post & McCord, New York City. *TT 0.8: SP 0.8. TT 2.8: SP 2.8.* Refers to A. Diefendorf, F. D. Hutchinson, C. E. Pett, A. J. Post, J. C. Rathbun, A. Weymouth.

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(15) **CLASSEN, ASHLEY GREEN**, P. O. Box 2246, Lubbock, Tex. (Age 24. Born Pleasanton, Kans.) 1924 B. S. in C. E., Univ. of Kans. *TT 2: SP 2.* Summer 1921 Flagman and Chainman U. S. Gen. Land Office, Helena, Mont. Summer 1922 Inspector and Instrumentman, Kansas State Highway Dept., LaCygne, Kans. Summer 1923 Inspector and Res. Engr. and June to Aug. 1924 Asst. Engr., with Black & Veatch, Cons. Engrs., Kansas City, Mo. *TT 0.2: P 0.2.* Aug. 1924 to March 1925 Office Engr., The Monolith Bldrs., Inc., Kansas City, Mo., and Little Rock, Ark., on design of reinforced concrete structures, estimating and supervision. *TT 0.6: P 0.6: RC 0.6: D 0.6.* March 1925 to Aug. 1926 with Myers & Noyes, Cons. Engrs., Dallas, Tex., as Asst. Office Engr., on design, Party Chf. and general engineering. *TT 1.4: P 1.4: RC 1: D 1.4.* Aug. 1926 to date Sales Engr., Western Metal Mfg. Co. of Texas, Houston, El Paso and Dallas, also advising on irrigation, drainage, high-

way and railroad drainage problems. *TT 0.7: P 0.7: RC 0.7: D 0.7. TT 4.9: SP 2: P 2.9: RC 2.3: D 2.7.* Refers to E. B. Black, T. C. Mitchell, Jr., E. L. Myers, E. N. Noyes, H. E. Spickard, N. T. Veatch, Jr.

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(2) **CLEMENTS, GEORGE FELIX**, Post Office Bldg., Box 364, Hyannis, Mass. (Age 28. Born Cambridge, Mass.) 1921 B. C. E., Northeastern Univ. *TT 2: SP 2.* Summers and co-operative work while student, Asst., Rodman and Transitman with Henry F. Beal, and Rowland H. Barnes, Civ. Engrs., Waltham, Mass. Jan. to July 1920 Asst. Inspector on bridge construction, Boston & Albany R. R. July 1920 to date in private practice at Orleans and Hyannis, Mass., also (Sept. 1923 to Oct. 1925) co-operating with Rowland H. Barnes, Waltham, general civil engineering work, light design, etc. *TT 5.9: P 5.9: RC 1.5. TT 7.9: SP 2: P 5.9: RC 1.5.* Refers to G. C. Brehm, F. W. Carlson, C. S. Ell, W. P. Morse, P. C. Nash.

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(9) **CODDINGTON, EDWIN FOSTER**, 1751 Roxbury Rd., Columbus, Ohio. (Age 56. Born Conover, Ohio.) 1896 C. E., and 1897 M. Sc., Ohio State Univ. 1902 Ph. D., Univ. of Berlin, Germany. *TT 2: SP 2.* 1912 to date Prof., Ohio State Univ. *TT 15: P 15: RC 15. TT 17: SP 2: P 15: RC 15.* Refers to F. H. Eno, F. W. Jennings, C. T. Morris, C. W. Ozias, J. C. Prior, C. A. Raymond, E. G. Robinson, G. F. Schlesinger, J. R. Shank, R. C. Sloane, R. H. Smith, R. N. Wald.

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(1) **COLLEY, CLAY THOMAS**, Usine Ste. Madeleine, San Fernando, Trinidad. (Age 25. Born Liberal, Kans.) 1921 Rig Bldg. Foreman for B. W. Bass, Contr. for Gulf Refining Co., Grand Bayou, La., and El Dorado, Ark. *TT 1: SP 1.* Feb. 1923 to Jan. 1924 Erection Foreman, International Derrick & Equipment Co. of Los Angeles, Cal., on structural steel towers and concrete foundation work, including instrument work on foundations. *TT 0.9: SP 0.9.* Jan. to June 1924, with Erection Dept., Lillwellyn Iron Works, Los Angeles. *TT 0.5: SP 0.5.* June 1924 to date (except Aug. and Sept. 1925 with Elliott & Harmon Eng. Co. of Memphis, Tenn., on work in Clewiston, Fla., as Supt. of Constr. and designing small buildings) with The Celotex Co., Marrero, La., as Supt. of Constr. and Asst. Supt. of Operation on railroad surveys, drafting and complete charge of construction; since Oct. 1925 Supt. of Constr. on over \$500 000 worth of work, including location surveys and designing plant layouts all for Field Div.; at present on construction work in Trinidad. *TT 2.7: P 2.7: RC 1.5. TT 5.1: SP 2.3: P 2.8: RC 1.6.* Refers to H. J. Burt, J. A. Harman. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(15) **COLLINS, ROBERT WETMORE**, 428 West Bldg, Houston, Tex. (Age 32. Born New Orleans, La.) 1917 B. S. in C. E., Univ. of Mich. *TT 2: SP 2.* July 1912 to July 1913 Rodman, Field Draftsman and Transitman, Engr. Dept., Jacksonville, Fla. *TT 1: SP 1.* May to Sept. 1917 Field Engr., G. A. Fuller Co., on construction of Camp Funston, Kans. *TT 0.4: P 0.4.* Sept. 1917 to Sept. 1919 with U. S. Army, until Nov. 1917 as 1st sergeant, 324th Inf., then 2d Lieut., 19th Field Artillery, from July to Nov. 1918 in combat service *TT 2: P 2.* Sept. 1919 to Feb. 1923 with Doullut & Williams Co., Inc., New Orleans, La., on wharves, piers, foundation, warehouses, etc., until Sept. 1920 as Asst. Engr. on construction, then Mgr., Texas office, in charge of design and construction. *TT 3.5: P 3.5: RC 2: D 0.5.* Feb. 1923 to date with Southwestern Constr. Co., Houston, Tex., until May 1926 as Mgr. on construction of wharves, commercial buildings, etc., and since then Vice-Pres. *TT 4.2: P 4.2: RC 3.7: D 0.5. TT 13.1: SP 3: P 10.1: RC 5.7: D 1.* Refers to R. J. Cummins, J. P. Ewin, E. G. Maclay, M. J. Sullivan, C. A. Thanheiser, W. H. Williams, J. K. Woolf.

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(7) **COOKE, PHILIP CHARLES**, 1016 South Burdick St., Kalamazoo, Mich. (Age 24. Born Kalamazoo, Mich.) 1927 B. S. in C. E., Univ. of Mich. *TT 2: SP 2.* July 1924 to Oct. 1925 Asst. County Engr., Allegan County, Mich., in responsible charge of surveys, construction and design of roads and drainage structures. *TT 1.2: P 1.2: RC 1: D 0.2.* Summers 1923 and 1926 and Feb. 1927 to date with Andrew Lenderink, Cons. Engr., Kalamazoo, Mich., acting as Rodman (1923) and Asst. on sewage-disposal and sanitary work, surveys, estimates, design of steel and concrete structures, etc. *TT 0.2: P 0.2: RC 0.2. TT 3.4: SP 2: P 1.4: RC 1.2: D 0.2.* Refers to J. H. Cissel, A. J. Decker, W. C. Hoad, A. Lenderink, G. S. Pierson.

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(1) **COPP, JOHN IRVING**, 654 Bergen Ave., Jersey City, N. J. (Age 36. Born North Barnstead, N. H.) 1916 B. S. in Structural Eng., Tufts Coll. *TT 2: SP 2.* July 1916 to Oct. 1917 Draftsman, American Bridge Co., on mill buildings and bridges. *TT 1.3: SP 1.3.* Oct. 1917 to June 1919 Private, Co. B, 23d Engrs., U. S. Army, 1 5/12 years overseas.

TT 1.7: SP 1.7. July 1919 to Sept. 1920 Draftsman, New England Structural Co., detailing mill and office buildings and bridges (structural steel). **TT 1.2: SP 1.2.** Sept. 1920 to Sept. 1922 Engr., Boston Structural Steel Co., designing and estimating office and mill buildings, designing structural steel for Temple Tifereth Israel, at Cleveland, Ohio. **TT 2: SP 0.5: P 1.5: RC 1.5: D 1.** Sept. 1922 to date with McClintic-Marshall Co., until May 1925 as Draftsman, detailing and checking structural steel for office and mill buildings, and since then Engr. and Estimator. **TT 4.5: SP 3.7: P 0.8: RC 0.8: D 0.2.** **TT 12.7: SP 10.4: P 2.3: RC 2.3: D 1.2.** Refers to D. S. Gendell, Jr., L. C. Gustin, J. Jones, R. A. Pendergrass, H. W. Preston, E. H. Rockwell, J. B. Smiley.

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(3) COVERT, NEWELL SERINE, 16 Parrott St., Cold Spring, N. Y. (Age 36. Born New York City.) Sept. 1908 to June 1910 student, Coll. of Civ. Eng., Cornell Univ. **TT 0.7: SP 0.7.** June 1910 to July 1912 Timekeeper, Electrician, Pumpman and Laborer, with contractors on New York Aqueduct; taught school (6 months), etc. July 1912 to date with Public Service Comm. for First Dist. of New York, later Transit Constr. Comm. and Transit Comm., until Aug. 1913 as Jun. Asst., then Jun. Engr. and since June 1918 Asst. Engr., on subway construction, cost distribution, appraisal and valuations. **TT 14.7: SP 1.1: P 13.6: RC 11.8.** **TT 15.4: SP 1.8: P 13.6: RC 11.8.** Refers to H. J. Alexander H. M. Leon, R. S. Saunders, W. F. Stevenson, D. L. Turner.

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(2) CRAIG, JOHN EARL, 369 Laurel St., Hartford, Conn. (Age 27. Born Deerfield, Va.) 1921 B. S., Va. Mil. Inst. **TT 2: SP 2.** Sept. 1921 to Feb. 1922 post-graduate student in engineering, Cornell Univ. **TT 0.4: P 0.4.** Feb. to June 1922 Instructor in Chemistry and Mathematics, Roanoke (Va.) High School. July to Dec. 1922 Instrumentman, Virginia State Highway Dept., on construction, inspection of small concrete bridges and culverts, etc. **TT 0.5: SP 0.5.** Dec. 1922 to July 1925 with Norfolk & Western Ry., successively as Rodman, Draftsman, Leveler, and Transitman, on design for siding, yard and double-tracking, facilities, estimates, etc. **TT 2.6: SP 2.6.** July 1925 to March 1927 Res. Engr., with Parsons, Klapp, Brinkerhoff & Douglas and Parklap Constr. Corporation of Florida, in charge of Clearwater, Dunedin and Belleair Branch offices, supervising field parties on surveys, subdivision layouts, municipal planning, design, computations, drafting, etc., being responsible for construction of 25 miles of brick, asphalt and Warrenite streets with sidewalks; design and construction of water supply, sewerage and drainage and hydraulic fill (2 000 000 cu. yd., suction dredge), made up monthly and final estimates for contractors. March 1927 to date Field Engr., Contr. Bond Div., Aetna Casualty & Surety Co., Hartford, Conn. **TT 1.6: P 1.6: RC 1.1: D 0.5.** **TT 7.1: SP 5.1: P 2: RC 1.1: D 0.5.** Refers to C. J. French, J. K. Harris, F. C. James, E. Klapp, S. D. Newton, W. P. Wiltsee, A. Wolstenholme.

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(1) DAVIDSON, DAVID LOMAS, 341 Pitt St., Sydney, N. S. W., Australia. (Age 33. Born Sydney, New South Wales.) Feb. 1909 to March 1912 Pupil to Geo. Sheppard, Archt. and Surveyor, Wagga Wagga, New South Wales. **TT 3.2: SP 3.2.** May 1912 to Aug. 1915 Eng. Asst., Metropolitan Board of Water Supply and Sewerage, on survey and construction. **TT 3.2: SP 3.2.** Aug. 1915 to May 1917 and June 1920 to March 1924 with Dept. of Public Works, New South Wales, first as Eng. Draftsman and Surveyor, Roads and Bridges Branch, and after June 1920 Engr.-Surveyor, Hydro-Elec. Investigations Dept., on location, survey and report on hydro-electric schemes in Eastern Division of State. **TT 5.3: P 5.3: RC 3.7: D 1.** May 1917 to June 1920 Civ. Engr. and Archt. in Straits Settlements and Malaya, on survey, design and location of roads, bridges, flood control works and reinforced concrete factories. **TT 3.1: P 3.1: RC 3.1.** March 1924 to date Engr., Metropolitan Board of Water, Sewerage and Drainage, Sydney, on location, survey and design of main sewers, low-level schemes and storm-water drains. **TT 3.2: P 3.2: RC 2.7.** **TT 18.1: SP 6.5: P 11.6: RC 9.6: D 1.** (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(11) DETZER, STEPHEN, 7353 Sunset Boulevard, Los Angeles, Cal. (Age 22. Born Littleton, Colo.) 1926 A. B. in Civ. Eng., Stanford Univ. **TT 2: SP 2.** Aug. 1926 to Jan. 1927 Jun. C. E. Draftsman, Los Angeles County, Cal. **TT 0.4: SP 0.4.** **TT 2.4: SP 2.4.** Refers to A. Jones, J. B. Lippincott, L. B. Reynolds, F. Thomas, C. B. Wing.

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(4) DOYLE, MICHAEL FRANCIS, Jr., 27 East Clapier St., Philadelphia, Pa. (Age 22. Born Philadelphia, Pa.) May 1924 to Jan. 1925 Rodman and (5 months) Inspector of granite, Delaware River Bridge. **TT 0.7: SP 0.7.** Jan. 1925 to date Rodman, Eng. Dept., Bureau of Water, Philadelphia, Pa., on hydraulic construction. **TT 2.2: SP 2.2.** **TT 2.9: SP 2.9.** Refers to E. W. Bowden, M. B. Case, C. Elcock, W. E. Fitzgerald, L. L. Jenne.

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(1) **DURANT, NICHOLAS JOHN**, Office of Bridge Engr., North Western Ry., Moghalpura, Lahore, India. (Age 36. Born Llanelly, Carmarthenshire, England.) 1922 B. Sc. in Civ. Eng., Univ. of Manchester, England. *TT 2: SP 2.* May 1913 to May 1916 and May to Oct. 1919 Articled Pupil with Henry Augustus Ellis, surveying, leveling and setting out buildings, detailing retaining walls, foundations for buildings and bridges, design of minor bridges, roof trusses and crane girders. *TT 3.4: P 3.4: RC 0.4: D 0.7.* May 1916 to May 1919 with British Army in France, Serbia and Bulgaria, surveying Salonika water supply and erecting workshop. *TT 0.7: P 0.7: RC 0.7.* Oct. 1919 to July 1922 student, Univ. of Manchester. June 1922 to Jan. 1923 Designing Draftsman, Redpath, Brown & Co., Ltd., Manchester, designing and detailing on mill buildings, theatre galleries and a power house. *TT 0.6: P 0.6: D 0.6.* Jan. 1923 to April 1924 Constructional Designer, Synthetic Ammonia & Nitrates, Ltd., Stockton, on heavy foundations, steel buildings, towers, pipe bridges, surveying, leveling and setting out new road (2 miles). *TT 1.2: P 1.2: RC 1.2: D 1.2.* May 1924 to July 1925 Designer, Dominion Bridge Co., Ltd., Montreal, Que., Canada, designing and estimating highway and railway bridges, bins, transmission towers and estimating on grain elevators and bascule bridges. *TT 1.2: P 1.2: D 1.2.* Aug. 1925 to Aug. 1926 not on engineering. Aug. 1926 to date Asst. Bridge Engr., Indian State Rys., and Chf. Bridge Designer, North Western Ry., Lahore, India. *TT 0.7: P 0.7. TT 9.9: SP 2: P 7.9: RC 2.4: D 3.8.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(6) **FELDMAN, MAX BERNARD**, 24 Oakland Sq., Pittsburgh, Pa. (Age 22. Born Pittsburgh, Pa.) 1925 B. S., Carnegie Inst. Tech. *TT 2: SP 2.* June 1925 to date with H. H. Robertson Co., Pittsburgh, Pa., successively tracing, detailing steel and sheet metal work, checking, estimating, and ($\frac{1}{2}$ year) Development Engr. and research work. *TT 1.8: SP 1.8. TT 3.8: SP 3.8.* Refers to F. J. Evans, F. M. McCullough, J. R. Sexton, C. B. Stanton, H. A. Thomas.

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(13) **FERREBEE, HARRY HILBERT**, 903 Pine St., San Francisco, Cal. (Age 39. Born Washington Township, Pa.) May to Dec. 1907 Tracer, mechanical drafting, Eastern Steel Co., Pottsville, Pa. *TT 0.6: SP 0.6.* Nov. 1911 to Sept. 1913 Chainman, Pennsylvania State Highway, computing, etc. *TT 1.8: SP 1.8.* Nov. 1914 to July 1915 and Jan. 1916 to April 1917 Chainman, Los Angeles County Surveyor's Office, Cal., drafting, computing, etc. *TT 1.8: SP 1.8.* April to July 1917 Chainman, U. S. Reclamation Service, Phoenix, Ariz. *TT 0.2: SP 0.2.* July to Dec. 1917 Transitman on small irrigation project for Quinton, Code & Hill, Los Angeles, Cal. *TT 0.4: SP 0.4.* Feb. 1918 to Aug. 1919 Transitman and Chf. of Party on topographic surveys and construction, Southern California Edison Co., Big Creek, Cal. *TT 1.5: SP 1.1: P 0.4: RC 0.4: D 0.1.* Sept. 1919 to Sept. 1920 and Dec. 1920 to Aug. 1921 Transitman and Chf. of Party on construction of powerhouses, penstocks and tunnels, Field Boss on two projects, San Joaquin Light & Power Co., Fresno, Cal. *TT 1.7: SP 1: P 0.7: RC 0.7: D 0.1.* Oct. 1921 to Jan. 1922 Transitman, subdivision work. *TT 0.3: SP 0.3.* Jan. to Sept. 1922 Chf. of Party, Merced Irrigation Dist., on location and construction of canals. *TT 0.6: P 0.6: RC 0.5.* Oct. 1922 to Jan. 1924 Transitman and Chf. of Party, with Thebo, Starr & Anderton, San Francisco, Cal., topographic surveys and estimates. *TT 1.3: SP 1: P 0.3: RC 0.3.* Jan. to Aug. 1924 Res. Engr., Pacific Portland Cement Co., on construction of cement plant, at Redwood City, Cal. *TT 0.6: P 0.6: RC 0.6.* Aug. to Dec. 1924 Locating Engr., Great Western Power Co. of California, location and estimate on 25 miles of road. *TT 0.3: P 0.3: RC 0.3.* Feb. to April 1925 Transitman on overhead tramway location. *TT 0.2: SP 0.2.* April 1925 to March 1926 with San Mateo County Surveyor, as Supt. of Constr. on improvement of large subdivision, Draftsman and Chf. of Party on subdivision and municipal work. *TT 0.9: SP 0.2: P 0.7: RC 0.6.* March 1926 to date with Great Western Power Co. of California as Res. Engr. on highway construction and Chf. of Party on topographic surveys. *TT 1: P 1: RC 1: D 0.1. TT 13.2: SP 8.6: P 4.6: RC 4.4: D 0.3.* Refers to A. F. Blight, H. K. Fox, E. A. Ingham, W. B. McMillan, C. M. Mardel, F. M. Thebo, A. M. Torpen.

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(7) **FISHER, ROBERT JOHN**, 425 East Water St., Milwaukee, Wis. (Age 23. Born Titonka, Iowa.) 1927 B. S., Iowa State Coll. March 1927 to date Inspector, Portland Cement Association. *TT 2: SP 2.* Refers to T. R. Agg, J. S. Dodds, W. L. Foster, A. H. Fuller, H. N. Jenks, F. Kerekes, A. Marston.

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(13) **FRASER, DONALD JOHN**, 1010 Bush St., San Francisco, Cal. (Age 26. Born Pittsburgh, Pa.) 2 years student, Carnegie Inst. Tech., Pittsburgh, Pa. Oct. 1920 to June 1922 and Nov. 1922 to May 1923 Axeman, Chainman and Rodman with Allegheny County Engrs.,

Pittsburgh. *TT 2.2: SP 2.2.* July to Oct. 1922 Transitman, Willamette Valley Lumber Co., Black Rock, Ore., on railroad location and construction. *TT 0.3: SP 0.2: P 0.1: RC 0.1.* May to Nov. 1923 Instrumentman, and May to Aug. 1924 Office Engr. on construction, computations and map work, Oregon State Highway, Lakeview and Grants Pass, Ore. *TT 0.8: SP 0.8: RC 0.3.* Aug. to Dec. 1924 Instrumentman, California-Oregon Power Co., Medford, Ore., on topographical survey, precise level work and boundary ties, in charge of field party. *TT 0.3: SP 0.2: P 0.1: RC 0.1.* April to Dec. 1925 Asst. Engr. and Chf. of Party, Hammond Lumber Co., Mill City, Ore., railroad location and construction, in responsible charge of field and office work. *TT 0.6: SP 0.2: P 0.4: RC 0.4.* Dec. 1925 to May 1926 Utilityman, Pacific Lumber Co., Scotia, Cal. *TT 0.4: SP 0.4.* May 1926 to date Field Draftsman, Great Western Power Co. of California, on topography and highway construction. *TT 0.8: SP 0.8. TT 5.4: SP 4.8: P 0.6: RC 0.9.* Refers to V. R. Covell, A. A. Henderson, R. G. Hackett, R. F. Krafft, C. M. Mardel.

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(14) GANS, ROY CARL, 3662 Wilmington Ave., St. Louis, Mo. (Age 49. Born Ashland, Mo.) 1901 B. S. in C. E., Mo. State Univ. *TT 2: SP 2.* May-Sept. 1901 Rodman, and Oct. 1901-March 1902 Acting Res. Engr., Chicago, Burlington & Quincy R. R. *TT 1: SP 0.5: P 0.5: RC 0.5.* April 1902-Dec. 1904 and Aug. 1906-Dec. 1910 with Missouri Pacific Ry. engaged as follows: April-June 1902 Instrumentman; July-Dec. 1902 Res. Engr. on reconstruction; Jan. 1903-Dec. 1904 Engr. in charge of party on maintenance; Aug. 1906-Dec. 1910 Asst. Engr. in charge of parties on maintenance-of-way and alignment, of engine-pit and roundhouse construction, on general supervision of alignment and grades, and general investigations for Engr. of Design. *TT 7.1: P 7.1: RC 6.8: D 1.* Jan. 1904-July 1906 Engr. in charge of party for S. J. McKee, Civ. Engr., Joplin, Mo., on surveying and engineering. *TT 2.6: P 2.6: RC 2.6: D 1.* Feb. 1911-April 1914 with Sewer Dept., St. Louis, Mo., 3 months as Draftsman, then Asst. Engr., on reinforced concrete construction, sewer design and surveys. *TT 3.3: SP 0.3: P 3: D 2.9.* May-July 1914 on special assignment to Maplewood, Mo., sewer design. *TT 0.3: P 0.3: RC 0.3: D 0.3.* Aug. 1914 to date with City of St. Louis, until Dec. 1917 as Engr. in Chg., Dept. of Pres., on alignment, grades and final estimates for tunnel construction, and (1½ years) on sewer construction; Jan.-May 1918 Engr., Dept. of Public Utilities, on surveys and investigations; since June 1918 with Dept. of Streets and Sewers as Senior Engr. and (after April 1926) Chf. Engr. *TT 12.7: P 12.7: RC 12.7: D 9.1. TT 29: SP 2.8: P 26.2: RC 22.9: D 14.3.* Refers to R. B. Brooks, B. L. Brown, C. H. Fisk, R. H. P. Ford, E. A. Hadley, W. W. Horner, E. R. Kinsey, W. E. Rolfe, J. M. Slater, C. E. Smith, C. M. Talbert, A. M. Vance, E. E. Wall.

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(10) GODWIN, WALTER HAMPTON, 32 West Forsyth St., Jacksonville, Fla. (Age 27. Born Valdosta, Ga.) 1926 B. S. in C. E., Ga. School Tech. *TT 2: SP 2.* June 1926 to date with The Foundation Co., until Aug. 1926 acting as Laborer, Handyman, Concreteman, etc., on Forrest Hills-Ricker Hotel, Augusta, Ga., and since then Bridge and Pile Inspector, Bayshore Road, Jacksonville, Fla., at present acting as Road Engr. *TT 0.7: SP 0.7. TT 2.7: SP 2.7.* Refers to R. P. Black, H. Englander, B. M. Hall, B. M. Hall, Jr., W. A. Hansell, J. H. Johnston, F. C. Snow, J. G. Wilburn.

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(8) GRAFTON, ELDON CARLYLE, 711 West Springfield Ave., Urbana, Ill. (Age 25. Born LeGrande, Iowa.) 1926 B. S. in Civ. Eng., Washington State Coll. *TT 2: SP 2.* June 1924 to March 1925 Draftsman, Longview, Portland & Northern Ry. Co., Longview, Wash. *TT 0.7: SP 0.7.* March to Sept. 1925, Dec. 1925 to Jan. 1926 and July to Sept. 1926 with Long-Bell Lumber Co., Ryderwood, Wash., as Draftsman, Instrumentman and Inspector on logging railroad location and construction, also pile-trestle construction. *TT 0.7: SP 0.7.* March to May 1926 Detailer with College Archt., at Pullman, Wash., designing and detailing reinforced concrete for new gymnasium and dormitory plans. Sept. 1926 to date Research Graduate Asst. in concrete arch investigations and Graduate Student in Civ. Eng., Univ. of Illinois. *TT 0.6: P 0.6. TT 4: SP 3.4: P 0.6.* Refers to H. Cross, W. C. Huntington, H. E. Phelps, O. L. Waller, H. M. Westergaard, W. M. Wilson.

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(10) GREGOR, MICHAEL, 317 North East First St., Miami, Fla. (Age 39. Born Derbent, Russia.) 1912 Engr. of Ways of Communication (Civ. Engr.), Inst. of Engrs. of Ways of Communication, Petrograd, Russia. *TT 2: SP 2.* Jan. 1913 to June 1914 Bridge Engr., Dept. of Ways of Communication, Petrograd, checking and approving bridge designs. *TT 1.5: P 1.5.* June 1914 to June 1915 Chf. Engr., First Russian Aircraft Corporation. *TT 1: P 1: RC 1.* 1915 to Nov. 1918 Cons. Engr., Meltzer Aircraft Dept., in charge of design and superintending production of propellers. *TT 3.4: P 3.4: RC 3.4.* Dec. 1919 to Dec. 1920 in charge of military construction works in Tiflis, Gori, Bell Clutch, Georgia, Russia. *TT 1: P 1: RC 1.*

Dec. 1922 to June 1923 Structural Steel Designer, Union Iron Works, Los Angeles, Cal. *TT 0.5: P 0.5: D 0.5.* Sept. 1923 to June 1924 in charge of construction design, Julian Petroleum Corporation, Los Angeles. *TT 0.7: P 0.7: D 0.7.* Nov. 1924 to April 1925 Structural Designer, Cyprus Miners Corporation, Los Angeles. *TT 0.4: P 0.4: D 0.4.* Dec. 1925 to May 1926 Asst. Engr., Sewer Div., Miami, Fla., on design of sewer system for Allapattah Dist. *TT 0.4: P 0.4: D 0.4.* June to Dec. 1926 Structural Designer, Georgia Manganese Co., Ltd., New York City. *TT 0.5: P 0.5: D 0.5.* May 1926 and Jan. 1927 to date Asst. Engr., Harbor Div., Miami, in charge of design of piers for Terminal Island. *TT 0.3: P 0.3: D 0.3.* *TT 11.8: SP 2: P 9.8: RC 5.4: D 2.8.* Refers to F. W. Altstaetter, S. P. Maximoff, K. P. Melioransky, L. S. Moisseiff, C. S. Nichols, V. E. Timonoff, R. H. Wilson.

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(1) GURTU, SIRI KRISHNA, Chf. Engr., Public Works Dept., Indra Ave., Baroda, Baroda State, India. (Age 55. Born Delhi, Imperial Delhi Prov., India.) 1897 M. A. (in English), Punjab Univ. 1901 graduated from 1st Examination of Civ. Eng. (Punjab). 1901 to 1921 with Public Works Dept., Gwalior, India, engaged as follows: 1901 (3 months) Surveyor under Chf. Engr., later Head of Survey Party; 1901 to 1902 in charge of construction of Land Records Tanks and on design; 1902 to 1904 Sub-Divisional Officer of Irrigation, in charge of design, construction and administration of irrigation tanks and canals; 1904 to 1906 Divisional Engr. of Construction and Surveys; design and construction of irrigation works; 1907 to 1909 Personal Asst. to Chf. Engr. of Irrigation, on design and administration; 1909 to 1914 Divisional Engr. of Irrigation, design, construction and administration of irrigation works; 1914 to 1921 Chf. Engr. of Irrigation, in control of Department (expenditure over £2 000 000 annually). *TT 20: SP 0.3: P 19.7: RC 19.7: D 19.7.* 1921 to 1923 Gen. Mgr. and Engr.-in-Chf. of an estate, Gandamanayakunur, Madras, Southern India. *TT 1.5: P 1.5: RC 1.5: D 1.5.* 1923 to 1925 Cons. Engr. advising native states on water-works and irrigation schemes. *TT 2: P 2.* 1926 to date Chf. Engr., Public Works Dept., at Baroda, in charge of Department (expenditure, £2 500 000 annually). *TT 1: P 1: RC 1.* *TT 24.5: SP 0.3: P 24.2: RC 22.2: D 21.2.* Refers to G. T. Mawson, A. J. Sackett, W. L. Saunders, E. G. Trueheart, T. R. J. Ward.

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(1) HALLORAN, PAUL JAMES, Care, Engr. in Chf., U. S. Navy, Gonaives, Haiti. (Age 30. Born Norwood, Mass.) B. S. and M. S., Dartmouth Coll. 1920 C. E., Thayer School. *TT 2: SP 2.* May to Aug. 1918 Structural Steel and Concrete Draftsman, Westinghouse, Church, Kerr & Co., New York City. May to Aug. 1919 Topographer, Rodman and Instrumentman with Supt. of Bldgs., Dartmouth Coll. on water conservation project, topographic survey, Dartmouth Land Grant. Aug. 1919 to April 1920 (while student) Structural and Architectural Draftsman for Larson & Wells, Archts. and Engrs., Hanover, N. H., school buildings, etc. April to Dec. 1920 Concrete Designer and Checker, Dwight P. Robinson Co., New York City, on reinforced concrete, details and designs for footings, flat slab. *TT 0.6: SP 0.3: P 0.3: D 0.3.* Dec. 1920 to Oct. 1921 with Standard Oil Co. of New York, until June 1921 as Structural Steel and Concrete Designer, on tanks, hoppers, warehouses, refineries, including flat-slab warehouse, Brockton, Mass., after June 1921 Engr., in charge of construction of garage and office, Genesee, N. Y., reinforced concrete. *TT 0.9: P 0.9: RC 0.3: D 0.7.* Oct. 1921 to date Lieut. (j. g.), and Lieut., (C. E. C.) U. S. Navy engaged as follows: Oct. 1921 to Nov. 1924 at Charleston, S. C., in charge of reconstruction of marine railway, until Sept. 1922 as Outside Asst. Public Works Officer, then Senior Asst. Public Works Officer, also (4 months) Outside Supt. and Office Asst. Public Works Officer, Parris Island; Nov. 1924 to June 1926 Senior Asst. Public Works Officer, Great Lakes, being Contr. Supt. and Technical Supervisor, on 300-ft. 3-arch reinforced concrete bridge, 36-in. fresh water intake, Lake Michigan, etc.; since June 1926 Departmental Engr., special duty with State, Dept., being Treaty Engr. with Direction Generale des Travaux Publics, public roads, maintenance and construction, public buildings, hydrography, hydraulic service, harbor improvements, municipal engineering, telephone and telegraph. *TT 5.5: P 5.5: RC 5.5: D 1.1.* *TT 9.1: SP 1.5: P 6.9: RC 6: D 2.2.* Refers to D. A. Abrams, G. S. Burrell, L. R. Cobb, F. H. Cooke, F. E. Cudworth, R. Fletcher, L. E. Gregory, C. A. Holden, N. C. Johnson, G. A. McKay, R. R. Marsden, H. A. Wells.

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(8) HARTMANN, ERNEST CHRISTIAN, 802 West Illinois St., Urbana, Ill. (Age 23. Born Decatur, Ill.) 1924 B. S. in Civ. Eng., Univ. of Ill. *TT 2: SP 2.* June to Sept. 1923 Masonry Inspector on subway work, Nov. 1924 to July 1925 Computer, on design of structures for electrification of terminal, and June to Sept. 1926 Draftsman, Bridge Dept., all for Illinois Central R. R., Chicago Ill. *TT 0.8: SP 0.5: P 0.3.* June to Nov. 1924 Structural Detailer, Mississippi Valley Structural Steel Co. *TT 0.5: SP 0.5.* Sept. 1925 to June 1926 and Sept. 1926 to date Research Graduate Asst., Eng. Experiment Station, Univ. of

Illinois, graduate study and on work in laboratory of structural engineering. *TT 1.4: P 1.4. TT 4.7: SP 3: P 1.7.* Refers to H. Cross, W. C. Huntington, M. S. Ketchum, T. D. Mylrea, T. C. Shedd, C. C. Williams, W. M. Wilson.

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(5) **HELLER, JOHN CHARLES**, 507 North Linwood Ave., Baltimore, Md. (Age 43. Born Baltimore, Md.) Jan. to June 1905 Tracer, Baltimore (Md.) Bridge Co. *TT 0.5: SP 0.5.* June 1905 to Feb. 1906 Tracer and Draftsman, Chesapeake Iron Works, Baltimore. *TT 0.6: SP 0.6.* Feb. 1906 to Oct. 1909 Draftsman, Lauer & Harper Co., Baltimore. *TT 3.7: SP 3.7.* Oct. 1909 to July 1917 Draftsman, Checker, Squadman, Asst. to Chf. Draftsman and Designer, with Dietrich Bros., Baltimore. *TT 7.8: SP 5.3: P 2.5: RC 2.5: D 1.2.* July 1917 to date in private practice as Structural Engr., having responsible charge of structural plans, details, inspection and design of bank, apartment, office, school, club, church, theatre and hospital buildings, etc. (names given in application). *TT 9.6: P 9.6: RC 9.6: D 4.3. TT 22.2: SP 10.1: P 12.1: RC 12.1: D 5.5.* Refers to H. F. Doreleman, E. M. Frost, W. W. Pagon, V. R. P. Saxe, W. C. Schnabel, V. B. Siems.

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(9) **HENDERSON, WILLIAM JOHNSTON**, Purdue Univ., Lafayette, Ind. (Age 27. Born Glen Gardner, N. J.) 1922 B. S. in C. E., and 1926 C. E., Lafayette Coll. *TT 2: SP 2.* June 1922 to Sept. 1925 with Bridge and Fabrication Dept., Bethlehem Steel Co., until Jan. 1923 and from Nov. 1923 to March 1924 as Draftsman detailing structural steel, Jan. to Nov. 1923 in charge of assembling and finishing structural members in bridge shop, and March 1924 to Sept. 1925 estimating and designing structural steel. *TT 3.2: SP 1.7: P 1.5: D 0.2.* Sept. 1925 to date Instructor in Structural Eng., School of Civ. Eng., Purdue Univ. July to Sept. 1926 Draftsman with Levering & Garrigues, New York City. *TT 1.6: P 1.6: RC 1.4. TT 6.8: SP 3.7: P 3.1: RC 1.4: D 0.2.* Refers to C. I. Bausher, S. W. Bradshaw, F. O. Dufour, E. L. Eriksen, W. K. Hatt, C. H. Mercer.

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(1) **HIMLER, MORRIS CHARLES**, 42 St. Marks Pl., New York City. (Age 48. Born Kalocsa, Hungary.) 1904 M. E., Royal Univ. of Budapest. *TT 2: SP 2.* 1905-1906 with New York Car Wheel Co., Buffalo, N. Y., as Chemist in charge of running iron foundry, later Designer of plant structures. *TT 2: P 2: D 0.5.* 1907 Designer of plants for rolling-mill machinery, United Eng. & Foundry Co., Pittsburgh, Pa. *TT 1: P 1: D 1.* Feb. 1908 to April 1911 Cons. Engr. for foundries and building trades in San Francisco, and April 1912 to Dec. 1920 on building and general engineering work in Budapest, Hungary. *TT 11.8: P 11.8: RC 11.8.* Jan. 1921 to March 1922 Designer of plants, Morris & Cummings Dredging Co., New York City. *TT 1.2: P 1.2: D 1.2.* Oct. 1922 to July 1923 with Adirondack Power & Light Co., Schenectady, N. Y., designing reinforced concrete foundations and supervising substation work. *TT 0.7: P 0.7: D 0.7.* July 1923 to Feb. 1925 with T. E. Murry, Cons. Engr., New York City, designing boiler settings and coal- and ash-handling appliances. *TT 1.5: P 1.5: D 1.5.* March 1925 to Feb. 1926 with Anglo Chilean Consolidated Nitrate Corporation, New York City, designing reinforced concrete structures. *TT 0.9: P 0.9: D 0.9.* Feb. 1926 to date with Raritan Copper Works, Perth Amboy, N. J., designing and erecting reinforced concrete foundations and structures. *TT 1.2: P 1.2: RC 1.2. TT 22.3: SP 2: P 20.3: RC 13: D 5.8.* Refers to A. J. Eddy, E. E. Halmos, H. W. Keith, W. S. St. John, C. Voetsch.

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(7) **HINCKLEY, HERBERT WOODBRIDGE**, 610 Forest Ave., Ann Arbor, Mich. (Age 22. Born Detroit, Mich.) 1926 B. S. in C. E., Univ. of Mich. *TT 2: SP 2.* June 1926 to date Draftsman, Hoad, Decker, Shoecraft & Drury, Ann Arbor, Mich., drafting and concrete design. *TT 0.7: SP 0.7. TT 2.7: SP 2.7.* Refers to A. J. Decker, W. R. Drury, W. C. Hoad, H. W. King, R. L. McNamee, R. H. Sherlock, C. O. Wisler.

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(13) **HJORT, SIDGE INGOLF ESBJORN**, 1600 Fell St., San Francisco, Cal. (Age 31. Born Stockholm, Sweden.) 1919 C. E. (Swedish) Royal Univ. Tech. *TT 2: SP 2.* Summers 1913 and 1915 Chainman, Rodman, Instrumentman and Draftsman, Swedish State R. Rs. Summer 1916 Instrumentman and Draftsman, Edsele hydro power plant, Sweden. June 1919 to June 1920 Military Engr. Service. June 1920 to April 1921 with Royal Board of Waterfalls, Stockholm, Sweden, as Designing Engr. for Motala hydro power plant, structural steel and concrete. *TT 0.8: P 0.8: D 0.8.* June 1921 to Jan. 1925 with Royal Dept. of Public Works (Dutch East Indies, Java), Dept. of Bridges and Roads, Batavia, Java, as Designing Engr. on steel and concrete special bridges, after June 1923 Chf. Designer of concrete. *TT 3.6: P 3.6: RC 1.5: D 2.1.* July 1924-Jan. 1925 with Volker & Hordyk, Batavia, on design of seven concrete bridges. *TT 0.6: P 0.6: RC 0.6.* July 1925 to Oct. 1926 Draftsman, Bodinson Mfg. Co., San Francisco, Cal., on conveying, screening machinery, gravel plant

layout and design. *TT 1.2: P 1.2.* Oct. 1926 to date with R. M. Frandsen, Constr. Engr., San Francisco, structural steel detailing. *TT 0.5: P 0.5.* *TT 8.7: SP 2: P 6.7: RC 2.1: D 2.9.* Refers to A. L. Alin, S. Barfoed, L. R. Jorgensen, J. Skytte, J. C. Van der Mey.

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(1) **HOFFBERG, WILLIAM ARNOLD**, 1725 Eastburn Ave., New York, N. Y. (Age 23. Born Kiev, Russia.) B. S., and 1924 C. E., Coll. of City of N. Y. *TT 2: SP 2.* June to Sept. 1923 Jun. Asst. Engr., New York State Highway Dept., on survey and inspection of construction. June 1924 to May 1925 Draftsman, Fordham Iron Works, tracing and detailing steel and ornamental iron. *TT 1: SP 1.* June 1925 to date Engr., Alpha Iron Works, Inc., detailing, designing and estimating structural steel. *TT 1.8: P 1.8.* *TT 4.8: SP 3: P 1.8.* Refers to W. Ginsberg, R. E. Goodwin, F. O. X. McLoughlin, D. B. Steinman, L. S. Suozzo.

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(11) **HORNER, ARTHUR STEWART**, 2324 Grape St., Denver, Colo. (Age 31. Born Topeka, Kans.) 1922 B. S. in C. E., Univ. of Colo. *TT 2: SP 2.* Aug. 1916 to April 1917 Time-keeper and Material Checker with H. C. Horner, Bldg. Contr., Denver, Colo. *TT 0.7: SP 0.7.* April 1917 to Jan. 1918 Rodman and Inspector, Atchison, Topeka & Santa Fe Ry., on construction of coach yard at Argentine, Kans. *TT 0.7: SP 0.7.* Oct. 1918 to Jan. 1919 Transitman, U. S. Reclamation Service, Riverton (Wyo.) Project. *TT 0.3: SP 0.3.* June 1922 to May 1923 with H. S. Crocker, Cons. Engr., Denver, as Transitman and Inspector on construction of Broadway Viaduct. *TT 0.9: SP 0.9.* May to Dec. 1923 on general supervision of house construction with Horner Constr. Co. *TT 0.6: P 0.6: RC 0.6.* Jan. to March 1924 Bldg. Inspector, Delaware & Rio Grande Western Ry. Co., on construction of shops at Salda, Colo. *TT 0.2: SP 0.2.* April 1924 to date with Dutton & Kendall Co., Contrs., Denver, as Estimator (3 months), Field Engr. on construction of Marston Lake Filtration Plant for City and County of Denver, Asst. Supt. and Engr. on construction of Republic Bldg. (12 stories, steel), Denver, and since Oct. 1926 Estimator for the Company, also Supt. of Operation and Maintenance of Republic Bldg., for Newcomb Realty Co. *TT 3: P 3: RC 2.7.* *TT 8.4: SP 4.8: P 3.6: RC 3.3.* Refers to C. A. Betts, C. M. Buck, J. W. Cerny, I. C. Crawford, H. S. Crocker, R. G. Shankland, F. H. Weed.

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(10) **HOUK, HOWARD HERMAN**, 1209 South Court St., Montgomery, Ala. (Age 37. Born in Cherokee County, Kans.) 1912 B. S. in Civ. Eng., Univ. of Kans. *TT 2: SP 2.* June 1912 to March 1913 Structural Draftsman and Checker on steel details of bridges, mill and office buildings, Kansas City (Mo.) Structural Steel Co. *TT 0.8: SP 0.5: P 0.3.* May 1913 to Jan. 1919 (except July to Nov. 1916) with Philippine Civil Service as Surveyor acting as Transitman, establishing traverse, etc., and (after Nov. 1916) Chf. of Cotobato cadastral survey. *TT 5.1: P 5.1: RC 3.1.* July to Nov. 1916 Structural Draftsman, United Iron Works, Iola, Kans., on steel bridge and building details. *TT 0.2: SP 0.2.* Jan. 1919 to Feb. 1922 Civ. Engr., Bureau of Public Works, Manila, Philippine Islands, engaged as follows: Jan. to Oct. 1919 Asst. to Constr. Engr. in charge on building projects; Oct. 1919 to Feb. 1920 and June 1920 to Jan. 1921 Designing Engr. on bridges and port structures; Feb. to June 1920 Acting Constr. Engr., Bldg. and Port Works Div., in charge of construction and maintenance of buildings and port works in Manila Dist.; Jan. 1921 to Feb. 1922 Chf. Structural Engr., Office of Cons. Archt., in charge of structural design features of buildings. Aug. 1920 to May 1921 also Professional Lecturer in Civ. Eng., Univ. of Philippines, design of reinforced concrete and steel structures. *TT 3.1: P 3.1: RC 2.4: D 2.* May 1922 to April 1924 Highway Bridge Engr., U. S. Bureau of Public Roads, on plan review and construction and maintenance inspection of Federal Aid projects in Dist. No. 8, and (after May 1923) in immediate charge of Alabama and Mississippi Projects. *TT 1.9: P 1.9: RC 0.9: D 0.9.* April 1924 to date State Bridge Engr., Alabama Highway Comm., in charge of all bridge design, construction and maintenance. *TT 3: P 3: RC 3: D 3.* *TT 16.1: SP 2.7: P 13.4: RC 9.4: D 5.9.* Refers to R. P. Boyd, J. A. C. Callan, M. C. Collins, W. Finnell, O. L. Grover, G. N. Mitcham, S. B. Slack.

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(4) **JACKSON, LEO FREDERICK**, 1230 Bushkill St., Easton, Pa. (Age 28. Born Taunton, Mass.) 1922 B. S. in C. E., Norwich Univ. *TT 2: SP 2.* Sept. 1922 to May 1926 Jun. Engr. and Asst. Engr., Illinois State Highway Dept., on plans, right-of-way, Culvert assembly, determination of grade line for pavements, field checking of plans, bridge inspection reports, estimates, from April-Oct. 1923 being Res. Engr. on construction of 50-mile section of concrete highway, in charge of laying out work. *TT 3.6: SP 1.6: P 2: RC 0.6.* May 1926 to date Asst. Engr., Bates & Rogers Constr. Co., on construction of new Musconetcong Tunnel for Lehigh Valley R. R., at West Portal, N. J. *TT 0.9: P 0.9: RC 0.9.* *TT 6.5: SP 3.6: P 2.9: RC 1.5.* Refers to C. R. Andrew, H. A. Camlin, F. L. Copeland, R. Rasmussen, W. A. Rogers, A. E. Winslow.

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(1) **JOHNSON, ALGOT KARL**, 715 Marshall Pl., Plainfield, N. J. (Age 40. Born Gothenburg, Sweden.) 1908 to April 1913 with Holbrook, Cabot and Rollins, New York City, as Carpenter, Carpenter Foreman, Compressed Air Foreman and Supt. of Constr., Hudson Terminal Bldg., Dry Dock No. 4, Navy Yard, Shafts 22 and 24, Catskill Aqueduct Water Scheme, Ft. Green Park, and foundation for condenser intake, all in Brooklyn, N. Y. *TT 4.3: SP 3: P 1.3: RC 1.3.* April 1913 to Aug. 1921 Supt. of Constr., J. G. White Eng. Corporation, New York City, in charge of design of construction plants and methods of construction, and field work on construction of two Marconi wireless stations, hotels, cottages, power houses, reservoirs, pipe lines, industrial buildings, sewage-disposal plants and roads. *TT 8.4: P 8.4: RC 8.4: D 3.* Aug. 1921 to Sept. 1922 Supt. of Constr., Rodgers & Hagerly Co., New York City, on North Side of Hill to Hill Bridge, Bethlehem, Pa., and in charge of layout, erection and operation of stone crusher plant. *TT 1.1: P 1.1: RC 1.1: D 0.1.* Sept. 1922 to Sept. 1923 Supt. of Constr. United Fire Proofing Co., New York City, in charge of erection of Studebaker car and service building, Brooklyn. *TT 1: P 1: RC 1.* Sept. 1923 to April 1924 Supt. of Constr. with P. T. Cox, New York City, on field work and design for Central Motor Repair Shop foundation. *TT 0.6: P 0.6: RC 0.6: D 0.6.* April 1924 to date Supt. of Constr., The William F. Kenny Co., New York City, in charge of erection of plants and office building for Consolidated Gas Co., at White Plains, Yonkers, and New York City, Industrial Bldg., and railroad crossing eliminations at Elmhurst and Winfield, N. Y. *TT 3: P 3: RC 3.* *TT 18.5: SP 3: P 15.5: RC 15.5: D 3.6.* Refers to W. Caccia, F. A. Holby, J. A. Jordan, H. R. Standiford, J. F. Sullivan, R. I. Webber.

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(11) **JOHNSON, FRANK MINITREE**, 439 Federal Bldg., Denver, Colo. (Age 54. Born near Berryville, Va.) 1 year student, Corcoran Scientific School, Columbian Univ., Washington, D. C. Sept. 1895 to Jan. 1899 with U. S. Geological Survey, Interior Dept., until Jan. 1896 as Field Asst., then U. S. Surveyor in charge of parties, running transit, drafting, computing, etc. *TT 3.3: SP 0.3: P 3.* March 1899 to April 1905 Examiner of Surveys, Gen. Land Office, Interior Dept., examination, engineering investigation and report on surveys and controversial survey conditions, made special surveys; 1903-1904 (6 months) studying irrigation engineering in Egypt. *TT 6.1: P 6.1: RC 6.1: D 2.* April 1905 to July 1910 Civ. Engr., at Cheyenne, Wyo., on cadastral surveys for U. S. Govt., general engineering, surveying and consultation. *TT 5.3: P 5.3: RC 5.3: D 5.3.* July 1910 to date U. S. Supervisor of Surveys, Gen. Land Office, Interior Dept., in charge of cadastral engineering service in United States and Alaska, determines policies, directs administrative and technical procedure, performs research work, controls expenditures, etc.; since July 1925 also administers all activities of twelve offices which were abolished, including cartography and administration, technical examination and approval of mineral surveys for patent. *TT 16.7: P 16.7: RC 16.7: D 16.7.* *TT 31.4: SP 0.3: P 31.1: RC 28.1: D 2.4.* Refers to C. H. Birdseye, W. Bowie, C. V. Hodgson, A. D. Kidder, W. H. Richards, Jr., N. B. Sweitzer.

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(5) **JOHNSTON, WILLIAM ROWLAND**, 1371 Irving St. Northwest, Washington, D. C. (Age 46. Born Washington, D. C.) Certified Prof. Engr., State of Virginia. Sept. 1900 to Feb. 1903 student in Civ. Eng., Lehigh Univ. *TT 0.7: SP 0.7.* May 1903 to March 1904 Aid, U. S. Coast and Geodetic Survey, acting as Instrumentman, Computer, etc. *TT 0.8: P 0.8.* May to Oct. 1904 Topographer, U. S. Reclamation Service, being Chf. of Parties on canal line location. *TT 0.5: P 0.5: RC 0.5.* April 1905 to Oct. 1907 Engr. and Asst. Supt., Foundation Co. of New York, engineering layout, control and supervision of caisson sinking. *TT 1.6: P 1.6: RC 1.6.* Nov. 1907 to May 1908 Inspecting Engr., McAdoo Tunnel Co., New York, caisson foundation, Terminal Bldg., supervising caisson sinking, etc. *TT 0.6: P 0.6: RC 0.6.* June 1908 to Dec. 1914 Transitman, Office Engr. of Bridges and Engr. of Highways, District of Columbia, plans, estimates, layout and direction of street and highway work. *TT 6.6: SP 4: P 2.6.* May 1915 to Dec. 1917 Transitman, Gen. Land Office, being Chf. of Party on cadastral surveys and resurveys, involving astronomical observations, etc. *TT 2.7: P 2.7: RC 2.7.* Jan. 1918 to March 1919 Engr., Constr. Div., U. S. Army, on design, plans and supervision of layout and construction of cantonment and war plant construction. *TT 1.3: P 1.3: RC 1.3: D 1.* April 1919 to May 1922 Constr. Engr., Bureau of Ordnance, Navy Dept., in charge of design, plans and supervising force account work, construction, Naval Proving Grounds, Dahlgren, Va., including housing project, quarters, administration and utility buildings, power plant, shops and highway, railroad and dock construction, gun testing emplacements, etc. *TT 3.2: P 3.2: RC 3.2: D 2.* June to Dec. 1922 Engr., Office of Q. M. General, and Jan. 1923 to date Project Mgr., Constr. Div., U. S. Veterans Bureau, on Veterans Hospital construction, administrative supervision of field projects, force account and contract work, co-ordination design and construction, checking estimates, responsible for contract

interpretations and for instructions to field superintendents and contractors, final inspection, etc. *TT 3.8: P 3.8: RC 3.8. TT 21.8: SP 4.7: P 17.1: RC 13.7: D 3.* Refers to W. H. Caldwell, H. B. Patten, J. J. Phelan, W. H. Richards, Jr., J. C. Thoma, C. G. Tudor.

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(14) **KERNS, JOHN THOMAS**, 1809 Dodge St., Omaha, Nebr. (Age 38. Born Omaha, Nebr.) 1909 to 1917 and Feb. 1919 to May 1920 with Hugh Murphy Constr. Co., Omaha, Nebr., until 1917 in charge of materials, Foreman on concrete construction and on asphalt paving, Supt. of street construction, and (after Feb. 1919) Gen. Supt. *TT 9.2: SP 1: P 8.2: RC 8.2.* June 1917 to Feb. 1919 Private, Co. C, 109th Engrs., U. S. Army; discharged as 1st Lieut., Corps of Engrs. *TT 1.6: P 1.6: RC 1.2.* May 1920 to Jan. 1924 Gen. Mgr., American Paving Corporation. *TT 3.6: P 3.6: RC 3.6.* Jan. 1924 to date Owner and Operator, John Kerns Constr. Co., Mun. Contrs., paving, sewers, etc. *TT 3.2: P 3.2: RC 3.2. TT 17.6: SP 1: P 16.6: RC 16.2.* Refers to J. A. Bruce, P. D. Cook, D. R. Donlen, E. Y. Grupe, Jr., R. N. Towl.

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(5) **KIENER, TYLER BAINBRIDGE**, Box 423 University, Va. (Age 27. Born Charlottesville, Va.) 1924 C. E., Univ. of Va. *TT 2: SP 2.* Feb. to Sept. 1918 and June to Sept. 1921 Rodman and Instrumentman, Sewer Dept., District of Columbia. *TT 0.6: SP 0.6.* Oct. 1919 to Sept. 1920 Chainman and Instrumentman, U. S. Coal & Coke Co., Gary, W. Va. *TT 0.8: SP 0.8.* June to Sept. 1922 Asst. Engr., W. P. Thurston Const. Co., Richmond, Va. June to Nov. 1923 Asst. Cashier and Foreman, Andrews Asphalt Paving Co., Hamilton, Ohio. Jan. to Feb. 1924 Asst. Engr., Office of Engr., City of Charlottesville, Va. *TT 0.2: P 0.2.* March 1924 to date Asst. Engr., Office of L. H. Williamson, Civ. Engr., later S. B. Williamson, Cons. Engr. *TT 3: P 3: RC 2: D 1. TT 6.4: SP 3.4: P 3: RC 2: D 1.* Refers to B. A. Bennett, A. C. Matthews, Jr., J. P. Smith, L. H. Williamson, S. B. Williamson.

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(13) **KITCHEL, MILTON PAINE**, Bldg. Dept., Oakland, Cal. (Age 37. Born Boonton, N. J.) 1913 C. E., Lafayette Coll. *TT 2: SP 2.* June 1913 to May 1915 Draftsman and Rodman, Erie R. R. *TT 1.9: SP 1.9.* June 1915 to April 1916 Aide, U. S. Lighthouse Service, on design of breakwaters, etc. *TT 0.9: SP 0.9.* June 1916 to Aug. 1917, Jan. 1919 to Aug. 1920 and Jan. 1921 to June 1924 Draftsman, Standard Oil Co. (California), mapping, surveying, design of sewers, roads, fire walls and fire prevention devices, reinforced concrete culverts and retaining walls, and on sounding, dredging and estimates, etc., at Richmond Refinery and Los Angeles, Cal. *TT 6.4: SP 6.4.* Sept. 1917 to Dec. 1918 Cadet, U. S. Army, Air Service. Sept. to Dec. 1920 in lumber and trucking business. July 1924 to Aug. 1925 Draftsman, Eng. Dept., City of Oakland, Cal., on storm sewer design and layout and estimating. *TT 1.1: SP 1.1.* Sept. 1925 to date Asst. Arch. Engr., Bldg. Dept., Oakland, on responsible review and revision of engineering structures, including municipal harbor structures; also (independently) completed design of Alta Bates Hospital (6 stories), Berkeley, Cal. *TT 1.7: P 1.7: RC 1.7: D 0.2. TT 1.4: SP 12.3: P 1.7: RC 1.7: D 0.2.* Refers to J. G. Bastow, T. F. Chace, A. P. Fisher, J. R. Guptill, L. H. Nishkian.

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(1) **KORN, MARTIN PINNEY**, 1316 Riverside Drive, New York City. (Age 40. Born New York City.) Licensed Prof. Engr., New York State. June 1903 to Aug. 1907 Asst. to Gustave Sandblom, Engr. and Contr., Long Island City, N. Y. *TT 4.2: SP 2.9: P 1.3: RC 0.5: D 0.8.* Aug. 1907 to April 1908 Draftsman with Empire Bridge Co., Brooklyn, N. Y., and (after Nov. 1907) Clark & Stowe, Engrs. and Contrs. *TT 0.8: SP 0.7: P 0.1: D 0.2.* April 1908 to May 1917 (except March to June 1911) Designer and Asst. Engr. in charge of construction, and Feb. to May 1919 Asst. Engr., Board of Transportation, New York City. *TT 8.6: P 8.6: RC 5.6: D 3.* March to May 1911 Asst. Engr., Baker Constr. Co., St. Louis, Mo. *TT 0.2: P 0.2: RC 0.2.* May to June 1911 with C. J. Jeppessen, Cons. Engrs., New York City. *TT 0.2: P 0.2: D 0.2.* May 1917 to Feb. 1919 Capt., Engrs., U. S. Army. *TT 1.8: P 1.8: RC 1.8.* May 1919 to April 1921 Engr.-in-Chg. of reconstruction, National Cloak & Suit Co., New York City. *TT 1.9: P 1.9: RC 1.9.* Jan. 1925 to Feb. 1927 with Elec. Bond & Share Co., New York City. April 1921 to Dec. 1924 and Feb. 1927 to date in private practice as Cons. Engr., at New York City. *TT 3.9: P 3.9: RC 3.9. TT 23.8: SP 3.7: P 20.1: RC 15.3: D 4.9.* Refers to A. E. Clark, C. I. Colyer, J. B. Hawley, G. Paaswell, R. J. Potts, R. Ridgway, M. A. Rifkinson, G. H. Seybolt, S. H. Widdicombe.

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(13) **KRUGER, HERMAN AUGUST**, Big Creek, Cal. (Age 41. Born Baltimore, Md.) 1909 M. E., Colo. School of Mines. *TT 2: SP 2.* 1909 to 1911 with Cia Minera de Pinosoles, Ojuela, Durango, Mexico, 6 months as Min. Engr. and 1½ years Mine Supt. *TT 2: P 2: RC 1.5.* 1911 to 1914 Civ. Engr., Pacific Light & Power Corporation, Los Angeles. *TT 3: P 3: RC 1: D 1.* 1914 to 1915 Min. Engr., Cia. Minera de Santa Gertrudes, Pachuca, Hidalgo, Mexico. *TT 0.7: SP 0.7: RC 0.5: D 0.5.* 1915 to 1919 Mine Supt., St. Joseph

Lead Co., Rivermines, Mo. *TT 4.2: P 4.2: RC 4.2.* 1919 to 1921 Cons. Engr., St. Louis (Mo.) Sampling & Testing Works. *TT 2: P 2: D 2.* 1921 to 1922 Gen. Supt., Annapolis (Mo.) Lead Co. *TT 1: P 1: RC 1.* 1922 to date Constr. Supt., Southern California Edison Co., Big Creek, Cal. *TT 5: P 5: RC 5.* *TT 20: SP 2: P 18: RC 13.2: D 2.5.* Refers to A. F. Blight, R. C. Booth, H. W. Dennis, D. H. Redinger, O. J. Schleber.

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(15) **KUHN, PERCY COLEMAN**, New Orleans Bank Bldg., New Orleans, La. (Age 27. Born Richmond, Va.) 1922 C. E., Univ. of Va. *TT 2.* June 1917 to Sept. 1918 Draftsman and Progress Estimator, DuPont Eng. Co. *TT 1.* June 1922 to date with Truscon Steel Co., until Feb. 1924 in Eng. Dept., New York City as Engr. and (1 year) Squad Boss directing design and detailing reinforced concrete structures (under supervision of Chf. Engr.), then at New Orleans 3 years as Chf. Engr., in responsible charge of structural design of numerous reinforced concrete structures, including Jesuits High School (3 buildings, \$1 000 000) and Mercy Hospital (4 stories, \$250 000) in New Orleans, Rola Hotel (7 stories, \$350 000), Natchez, Miss., St. Francis Xavier Acad. (5 stories, \$400 000), Vicksburg, Miss., Louisiana Central Hospital and Administration Bldgs., Pineville, La., gymnasium, Monmouth (Ill.) Coll., four dormitories (\$500 000), Louisiana State Univ., Baton Rouge, La., etc., and assisted on Ponchartrain Hotel (12 stories), New Orleans; since Feb. 1927 Dist. Mgr. of New Orleans Branch. *TT 4.9: RC 3.2: D 4.7.* *TT 7.9: RC 3.2: D 4.7.* Refers to H. P. Bayly A. F. Jacobi, F. A. Muth, A. J. Saville, D. H. Seaman, R. D. Snodgrass.

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(8) **LARKIN, WILLIAM JAMES, Jr.**, 1711 Granville Ave., Chicago, Ill. (Age 35. Born Chicago, Ill.) 1913 B. S. in Arch. Eng., Univ. of Ill. *TT 2: SP 2.* Summers 1910-1912 Tracer, June 1913 to Aug. 1916 successively Tracer, Draftsman, Field Engr., Material Estimator, etc., in connection with design of reinforced concrete and structural steel industrial buildings, Aug. 1916 to April 1918 Chf. Draftsman (under Chf. Engr.) in direct charge of drafting room, and Jan.-Dec. 1920 Mgr., Eng. Dept., directing all engineering, all for Burrell Eng. & Constr. Co., Chicago, Ill. *TT 5.7: SP 1.1: P 3.7: RC 1: D 2.7.* April-Oct. 1918 with U. S. Dept. of Agriculture, Portland, Ore., as Consultant in design and construction of buildings for bulk storage of grain. *TT 0.6: P 0.6: D 0.6.* Jan.-Dec. 1919 Sales Engr., U. S. Gypsum Co. of Chicago, in Kansas City and Southwest. *TT 0.9: P 0.9: D 0.9.* March 1921 to June 1923 Chf. Engr., John S. Metcalf Co., Chicago; on reinforced concrete and structural steel buildings. *TT 2.2: P 2.2: RC 2.2.* Aug. 1924 to date with U. S. Gypsum Co., until Jan. 1925 on special investigations, and since then Designing Engr., directly subordinate to Chf. Engr. and in full charge of all design work, Chf. Executive, drafting room. *TT 2.5: P 2.5: RC 2.5.* *TT 14: SP 3.1: P 10.9: RC 5.7: D 5.1.* Refers to A. Allen, M. J. Burke, E. W. Chamberlin, T. L. Condron, E. S. Nethercut, C. L. Post, W. S. Wolfe.

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(1) **LAWTON, MILTON BURBANK**, 80 Anderson Ave., Scarsdale, N. Y. (Age 25. Born New York City.) 1926 B. S. in Civ. Eng., N. Y. Univ. *TT 2: SP 2.* June 1920 to Sept. 1921 Transitman and Draftsman, and June to Sept. 1923 Chf. of Party and Computer for Norman P. Gerhard, Civ. Engr., Scarsdale, N. Y., surveys. *TT 1.2: SP 1.2.* June to Sept. 1924 Transitman and Draftsman for Geo. H. Rogers, Civ. Engr., Tuckahoe, N. Y., surveys. June 1925 to Feb. 1926 (while student) Draftsman for Supervisor of Property, New York Univ., New York City, surveying and drafting. Feb. 1926 to date Jun. Asst. Engr., New York State Highway Dept., Div. No. 8, Poughkeepsie, N. Y., field and office work on reinforced concrete highway construction and Engr.-in-Chg. of building 450-ft. earth dam with core wall. *TT 1.2: SP 1.1: P 0.1: RC 0.1.* *TT 4.5: SP 4.4: P 0.1: RC 0.1.* Refers to H. E. Breed, W. S. L. Cleverdon, N. P. Gerhard, E. G. Hooper, C. T. Schwarze, C. H. Snow.

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(10) **LEE, WILLIAM STATES, Jr.**, 433 East Morehead, Charlotte, N. C. (Age 24. Born Columbus, Ga.) 1924 C. E., Princeton Univ. *TT 2: SP 2.* Summer 1924 Laborer, Oct. 1924-Jan. 1925 Inspector on fabrication of Stoney gates in shops of Canadian Vickers, Ltd., Montreal, etc., Feb.-June 1925 Asst. to Steel Supt., on erection of Stoney flood gates, hydraulic turbines, etc., and July-Sept. 1925 Instrumentman on railway location and layout of buildings for aluminum plant, etc., all for Duke-Price Power Co., Ltd., Quebec. *TT 1.3: SP 0.2: P 1.1.* Oct. 1925 to date Designing Draftsman with W. S. Lee, Cons. Engr. *TT 1.5: P 1.5: D 1.5.* *TT 4.8: SP 2.2: P 2.6: D 1.5.* Refers to O. B. Bestor, C. B. Brown, F. H. Cothran, W. T. Hopkins, W. S. Lee, J. W. Rickey.

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(1) **LeVALLEY, LLOYD DARIUS**, Evelyn Court, Mamaroneck, N. Y. (Age 45. Born White Plains, N. Y.) 1889 to 1905 with Byrne & Darling, C. E., White Plains, N. Y., successively as Chainman, Rodman, Transitman, Computer, and in charge of construction of sewers, macadam roads, sidewalk grades, estimating, etc. *TT 6: SP 4: P 2: RC 1: D 1.*

1905 to 1910 Asst. Engr. in charge of 7 miles of Bronx Valley Sewer, grades, lines, design, estimates, computations and (1 year) triangulation. *TT 5: P 5: RC 4: D 1.* 1910 to 1916 Asst. Village Engr., Ossining, N. Y., on detail and design of sewers, roads, bridges, sidewalk and curb, sewage disposal, etc. *TT 6: P 6: RC 4: D 2.* 1916 to 1925 in private practice, also Village Engr. of Ossining (10 years), Croton-on-Hudson (2 years) and Dobbs Ferry (1 year); work included surveys, laying out new developments, subdivision, design of sewers and supervision of concrete roads, plans and specifications, inspection on concrete bridges, concrete roads, sewers, sidewalk, curbs and street grading, planning parks, landscape engineering of private developments, consulting engineering, etc. *TT 9: P 9: RC 9: D 9.* Oct. 1925 to May 1926 Chf. Engr., Maderia Properties, Inc., St. Petersburg, Fla., designing development (300 acres) on Gulf of Mexico; planned streets, computed lots and designed bulkhead of $2\frac{1}{2}$ miles of water front on Boca Ciega Bay, Fla. *TT 0.5: P 0.5: RC 0.5: D 0.5.* July 1926 to date Designing Engr. and Draftsman for H. and S. Sonn, Harrison, N. Y., designed sewers, roads, parks, landscaped house plots, topographical work and general engineering for development. *TT 0.8: P 0.8: RC 0.8: D 0.8.* *TT 27.3: SP 4: P 23.3: RC 19.3: D 14.3.* Refers to J. M. Farley, C. MacDonald, D. C. Nolan, Jr., J. A. Rowe, C. H. Sells.

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(1) **LUCCHETTI, RAUL JOSE FELIX**, Care, Dept. of Interior, Santurce, Porto Rico. (Age 30. Born Ponce, Porto Rico.) 1919 C. E., Cornell Univ. *TT 2: SP 2.* Aug. 1919 to May 1921 successively Draftsman and Estimator, Lackawanna Bridge Co. *TT 1.7: SP 1.7.* Aug. 1921 to date with Dept. of Interior, Govt. of Porto Rico, as follows: Aug. 1921 to July 1922 Res. Engr. in charge of construction of sewer system in Town of Humacao, Porto Rico, acting as Inspector on work under contract; July 1922 to Aug. 1923 Asst. Engr. designing small span reinforced concrete bridges; Aug. 1923 to March 1925 Maintenance Engr., being Head of Div. in charge of maintenance of all insular roads (about 1500 km. macadam, about 400 km., having asphalt surface); since March 1925 Designing Engr., had charge of bridge designs (small-span, reinforced concrete). *TT 5.6: SP 2: P 3.6: RC 2: D 2.* *TT 7.3: SP 3.7: P 3.6: RC 2: D 2.* Refers to M. V. Domenech, M. Font, R. A. Gonzalez, F. Levy Gonzalez, R. Ramirez, A. Rodriguez, E. Totti y Torres.

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(13) **MacDONALD, HARRY FELTS**, 469 Pine St., San Francisco, Cal. (Age 29. Born San Jose, Cal.) 1921 A. B. Stanford Univ. *TT 2: SP 2.* June to Sept. 1921 Rodman with Baker & Carpenter, San Francisco. *TT 0.2: SP 0.2.* Sept. 1921 to March 1923 Inspector, City of San Francisco, at Hetch Hetchy Dam, acting as Instrumentman. *TT 1.5: SP 1.5.* March 1923 to Feb. 1925 Instrumentman, Southern Pacific R. R., Stockton, Cal., acting as Estimator. *TT 1.8: SP 1.8.* April to June 1925 Instrumentman with Howe & Price of San Francisco, at Santa Cruz, Cal. *TT 0.2: SP 0.2.* Sept. 1925 to Dec. 1926 Instrumentman, Foreman and Designer, Pacific Gas Co., at San Francisco. *TT 1.2: SP 1: P 0.2: RC 0.1: D 0.1.* *TT 7: SP 6.8: P 0.2: RC 0.1: D 0.1.* Refers to S. Baker, E. E. Carpenter, J. C. L. Fish, W. C. Howe, C. B. Wing.

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(9) **MACE, HAROLD HARLAN**, 259 East Lane Ave., Columbus, Ohio. (Age 24. Born West Farmington, Ohio.) 1927 B. C. E., Ohio State Univ. *TT 2: SP 2.* May to Sept. 1924 with Landex of Columbus, Ohio, gathering data on city property, etc. Jan. 1925 to date (while student) in Office of Chf. Engr., Dept. of Public Service, Columbus, until June 1926 on assessment records, etc., and since June 1926 Draftsman on sewer work. *TT 0.1: SP 0.1.* *TT 2.1: SP 2.1.* Refers to O. Bonney, J. H. Gregory, C. T. Morris, J. C. Prior, J. R. Shank, R. C. Sloane.

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(11) **MacMILLAN, WILLIAM STUART**, 568 Clarkson St., Denver, Colo. (Age 36. Born Concord, N. H.) June 1909-April 1919, Oct. 1919-May 1921 and Feb. 1922-Sept. 1924 with Berlin Constr. Co., as follows: one year as Shop Drawing Draftsman; 2 months Apprentice Draftsman; June 1912-May 1919 Structural Steel Draftsman on shop details, erection plans and shop lists. Oct. 1919-May 1921 and June 1922 to Sept. 1924 Structural Steel Draftsman, Squad Boss, Checker and Detailer, Feb.-April 1922 as Asst. Erector, erected three lime kiln buildings; May 1922 Inspector, and Field Estimator. *TT 14.1: SP 11.8: P 2.3: RC 2.3.* May to Sept. 1919 Structural Steel Draftsman, J. H. Tower Iron Works, Providence, R. I. *TT 0.4: SP 0.4.* Sept. 1924 Structural Steel Draftsman, Checker, Detailer and Shop Inspector, and Oct. 1924 to date, Chf. Draftsman, Designer, Estimator, Shop and Field Inspector and Asst. Salesman, Denver Steel & Iron Works. *TT 2.6: SP 0.1: P 2.5: RC 2.5.* *TT 17.1: SP 12.3: P 2.5: RC 4.8.* Refers to C. F. Chase, O. W. Childs, J. A. Crook, C. Derick, N. W. Funk, R. C. Noerr, G. B. Taylor.

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(11) **McGREW, JONATHAN THOMAS**, West Portal, Colo. (Age 32. Born Guinda, Cal.) Sept. 1916 to Feb. 1920 with Union Pacific R. R., successively as Rodman, Instrumentman and Draftsman. *TT 3.5: SP 3.5.* Feb. to May 1920 Draftsman, City and County of Denver, Colo. *TT 0.3: SP 0.3.* May to Nov. 1920 Draftsman, Bond Eng. Co., Newcastle, Wyo., surveying and engineering. *TT 0.6: SP 0.6.* Feb. to May 1921 Camp Draftsman and May to Aug. 1921 Chf. Draftsman, Mt. Streeter Ry. Co., at Craig and Denver, Colo. *TT 0.6: SP 0.6.* Sept. 1921 to Dec. 1922 Camp Draftsman, Denver & Rio Grande Western R. R. *TT 1.3: SP 1.3.* Jan. to Feb. 1923 Draftsman, U. S. Forest Service, Denver; Copyist. *TT 0.2: SP 0.2.* April to Sept. 1923 with City of Trinidad, Colo., one month as Instrumentman, then Asst. Engr. on sewers and paving. *TT 0.5: SP 0.1: P 0.4: RC 0.4.* Nov. 1923 to June 1925 with Denver Municipal Water Works, one month as Draftsman, then Field Engr. *TT 1.6: SP 0.1: P 1.5: RC 1.5.* June 1925 to July 1926 Draftsman, and Aug. 1926 to date Asst. Engr., Moffat Tunnel Comm., West Portal, Colo. *TT 1.8: SP 1.1: P 0.7: RC 0.7.* *TT 10.4: SP 7.8: P 2.6: RC 2.9.* Refers to C. A. Betts, R. F. Gray, F. C. Hitchcock, T. J. Leahy, B. Lowther, W. L. Prouty

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(11) **McGUFFIE, FRANK HILL**, 240 Coronado Bldg., Denver, Colo. (Age 40. Born Waverly, N. Y.) 1903 to 1906 student, St. Johns Coll. Summers 1903-1906 Chainman and Rodman, and 1906 to 1908 Rodman and Leveler, Lehigh Valley R. R. *TT 2.7: SP 2.7.* 1908 to 1910 Engr. in charge of construction on estate of B. L. Winters, Smithboro, built and designed roads, small bridges and water-supply system. *TT 2: P 2: RC 2.* 1910 to 1911 with Rlordon Co. of London, at St. Jovite, Canada, as Draftsman, Transitman in charge of party, and in charge of base-line surveys. *TT 1: P 1: RC 0.5.* 1911 to 1924 with New York State Dept. of Highways, until 1917 as Levelman in charge of contracts and of survey parties on location, etc.; winter 1913 also special work at Cornell Univ.; after 1917 Asst. Engr., in charge of design of pavements and bridges (spans up to 90 ft.), of village paving and of county supervision and maintenance of 150 miles of highways, also highway construction contracts; designed greater part of sewerage system for Village of Waverly, also bridge work, Delaware & Northern R. R. and dam for Callicoon Elec. Co. *TT 12: P 12: RC 11: D 3.5.* 1924 to date Field Engr., National Surety Co. of New York, supervising completion of contracts, estimating, preparing specifications, advising contractors, preparing contract data for underwriters, etc. *TT 3: P 3: RC 2: D 1.* *TT 20.7: SP 2.7: P 18: RC 15: D 4.5.* Refers to H. E. Breed, C. T. Fisher, J. A. Giles, R. B. Hoadley, Jr., A. T. Paine.

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(7) **McLEAN, JOSEPH RAYMOND**, 1501 East Fifth St., Superior, Wis. (Age 39. Born St. Croix Falls, Wis.) Oct. 1909 to Nov. 1910, May 1911, and Aug. 1911 to Nov. 1913 with Northern Pacific Ry. Co., successively as Chainman, Rodman, Inspector, Instrumentman, and Topographer. *TT 3.5: SP 3.5.* Nov. 1910 to May 1911 Mechanic Helper, Idaho & Washington Northern Ry., in machine shop. *TT 0.5: SP 0.5.* June to Aug. 1911 Instrumentman, Topographer on irrigation surveys, private work. *TT 0.2: SP 0.2.* Nov. 1913 to Jan. 1915 in charge of private work, surveys, subdivision and plotting Lakeshore property. *TT 1.2: P 1.2: RC 1.2: D 1.2.* Jan. 1915 to March 1918 County Highway Commr., Polk County, Wis., on construction and maintenance of highways. *TT 3.2: P 3.2: RC 3.2: D 3.2.* March 1918 to date with Wisconsin Highway Comm., until March 1920 as Maintenance Engr., 1 year on Div. No. 6 (6 counties) and 1 year on Div. No. 8 (9 counties), and since March 1920 Div. Engr., on supervision of surveys, plans, construction and maintenance of highways and bridges. *TT 9: P 9: RC 9: D 7.* *TT 17.6: SP 4.2: P 13.4: RC 13.4: D 11.4.* Refers to A. L. Hambrecht, H. J. Kuelling, W. P. Linton, F. F. Mengel, O. C. Rollman, P. E. Thlan, C. R. Weymouth.

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(3) **McWILLIAMS, JOHN IGNATIUS**, P. O. Box 1, Pine Camp, Great Bend, N. Y. (Age 38. Born Brooklyn, N. Y.) Jan. 1915 to March 1917 2d Lieut., March to Sept. 1917 1st Lieut., Sept. 1917 to July 1926 Capt., and July 1926 to date Major, Q. M. Corps, U. S. Army, until 1923 acting as Asst. Constr. Quartermaster, and since then Constr. Quartermaster in responsible charge of construction; from Jan. to May of each year on design, layout and estimate of cost of camps, and from May to Nov. of each year on supervision of construction of roads, buildings, water supply, garbage disposal (septic tanks, etc.) at camps in New York State, being Asst. Constr. Q. M., on new layout and building program at Camp Smith (1915), and on layout, water supply and road work, 27th Div. Camp at McAllen, Tex. (1916), and at Spartanburg, S. C. (1917); Asst. Div. Q. M., 27th Div., A. E. F., France and Belgium (1918 to 1919), and at Camp Smith (1920-1923); since 1924 designed, supervised construction and had complete charge of layout of water supply, concrete roads, buildings, etc., including barracks, administration buildings, septic tanks, dams, observation towers, hospital, store-

houses, gun sheds, incinerators, etc.; at present supervising construction of ammunition magazines, ice-houses, rifle range, bomb-proof shelters, etc., at Pine Camp; also designed gun sheds to be erected at Ft. Ontario. *TT 12: SP 7: P 5: RC 4: D 4.* Refers to H. B. Brewster, W. W. Harts, C. H. Higginson, T. A. Smith, A. Weymouth.

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(15) **METCALFE, ORIN EDWARD**, 1204 Travis Heights Boulevard, Austin, Tex. (Age 42. Born Worcester, Mass.) 1902 to May 1904 Rodman, Draftsman and (1 year) Instrument-man in charge of field party with William I. Thompson, Civ. Engr., Worcester, Mass. *TT 2: SP 2.* May 1904 to Sept. 1905 on sewer and irrigation construction at San Marcos, Tex., until Aug. 1904 as Res. Engr. for John W. Maxcy, Civ. Engr., Houston, Tex., then Res. Engr. and Supt., Constr., for William Green. *TT 1.3: P 1.3: RC 0.6.* Sept. 1905 to 1920 in general practice of civil engineering and land surveying engaged as follows: Sept. 1905 to Oct. 1912 on engineering work for City of San Marcos, Tex., on sewer and water extensions, installed irrigation plants, etc.; County Surveyor, Hays County (1908-1912); Oct. 1912 to Oct. 1917 on special work for City of Austin and for State of Texas, cemetery development, including roads, drainage, topography and layout, water-works reports, Lake Austin survey, sewer design, construction, drainage, roads and landscape, for State Blind Institute, etc.; Oct. 1917 to Aug. 1919 County Engr., Travis County, Tex.; Aug. 1919 to Jan. 1920 general civil engineering and surveying. *TT 14.5: P 14.5: RC 6.1: D 5.1.* Jan. 1920 to Jan. 1921 Sub-Contr. with F. P. McElworth, on concrete bridges, state highway work, Hood County, Tex. *TT 1: P 1: RC 1.* Jan. 1921 to Feb. 1922 Sub-Contr., Contr. and Supt. of Constr., on bridge ($\frac{1}{4}$ mile long), piling bridges, etc., Rockwall County. *TT 1.1: P 1.1: RC 1.1.* Feb. to Oct. 1922 Contr., concrete, wood-pile bridges, and piling on reservoir, Navarro and Freestone Counties, Tex., also flood gates, levee, Kaufman County. *TT 0.7: P 0.7: RC 0.7.* Oct. 1922 to July 1924 Contr. and Contr.'s Supt., also city surveying and private surveys, irrigation improvement districts, Hidalgo and Cameron Counties. *TT 1.7: P 1.7: RC 1.7.* Oct. 1924 to Oct. 1925 Contr., bridges, Williamson County. *TT 1: P 1: RC 1.* Oct. 1925 to July 1926 private practice of civil engineering at Austin. *TT 0.7: P 0.7: RC 0.4: D 0.3.* July 1926 to Jan. 1927 Acting City Engr., and Jan. 1927 to date City Engr., Austin. *TT 0.7: P 0.7: RC 0.4: D 0.3.* *TT 24.6: SP 2.2: P 22.4: RC 13.1: D 5.7.* Refers to C. T. Bartlett, T. L. Bell, L. B. Bone, A. A. Stiles, W. O. Washington, M. C. Welborn, G. G. Wickline, B. F. Williams.

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(13) **MINIHAN, JOHN FRANCIS**, 1125 Francisco St., San Francisco, Cal. (Age 30. Born San Francisco, Cal.) 1918 B. S., Coll. of Civ. Eng., Univ. of Cal. *TT 2: SP 2.* May 1918 to May 1919 Shipfitter and Linesman, Bethlehem Shipbuilding Corporation, Union Plant, San Francisco, Cal. *TT 1: SP 1.* May 1919 to Nov. 1920 with E. O. Burgess, Cons. Engr., San Francisco, on design and detail of steel structures. *TT 1.5: P 1.5: D 0.5.* Nov. 1920 to July 1922 Engr., Transmission Tower Dept., Pacific Coast Steel Co., San Francisco, on design and detail of high-tension electric transmission structures. *TT 1.7: P 1.7: RC 1.7: D 1.7.* July 1922 to date Estimator, Cahill Bros., Inc., Contr. Engrs. on construction estimating, engineering, superintendence. *TT 4.7: P 4.7: RC 4.7: D 4.7.* *TT 10.9: SP 3: P 7.9: RC 6.4: D 6.9.* Refers to E. O. Burgess, J. R. Cahill, W. P. Day, C. Derleth, Jr., S. S. Gorman, J. B. Leonard, R. A. Monroe.

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(1) **MOONEY, TOM GLEASON**, 3481 Desmond Ave., Jamaica, N. Y. (Age 31. Born Troy, N. Y.) Attended Rensselaer Polytechnic Inst. (Received war diploma.) Summers 1913 and 1914 Inspector, New York State Highway Dept. *TT 0.5: SP 0.5.* Summer 1915 built concrete manholes, North Hudson Constr. Co. *TT 0.2: SP 0.2.* 1916 Mexican Border Service. 1917 to 1920 1st Lieut., Q. M. Corps, U. S. Army in charge of buildings and shops, plumbing and heating, Camp Dix, N. J. *TT 3: P 3: RC 3.* 1920 to 1925 Sales Engr. and Asst. Mgr., Sewer Dept., Lock Joint Pipe Co., in charge of production. *TT 5: P 5: RC 5.* 1925 to 1926 Gen. Supt., Hammen Constr. Co., in full charge of construction, Jersey City Trunk Sewer, Sec. 2. *TT 1: P 1: RC 1.* 1926 to date Pres., Mooney & Mannino (Manplimo Eng. & Constr. Co., Inc.), built sewer (\$250 000), Queens Borough. *TT 1: P 1: RC 1.* *TT 10.8: SP 0.8: P 10: RC 10.* Refers to E. S. Closson, E. W. Doebler, M. W. Loving, C. Potts, J. F. Skinner, F. H. Weed.

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(1) **MORANTI, PAUL JOSEPH**, 124 West Seventy-Second St., New York City. (Age 44. Born Sorento, Italy.) 1900-1903 student, Civ. Eng. Dept., Milano Univ. *TT 1: SP 1.* 1904 Rodman, Pennsylvania R. R. *TT 1: SP 1: D 0.5.* 1905 Asst. Engr., Empire Steel & Iron Co. *TT 1: P 1: RC 1: D 0.5.* 1905 to 1909 Supt. of Constr. on P. R. R. tunnel under New York City. *TT 4: P 4: RC 4: D 2.* 1909 to 1911 Supt. of Constr., T. A. Gillespie Co. on Rondout Tunnel. *TT 2: P 2: RC 2: D 1.* 1911 to 1912 Gen. Supt., Canadian Northern

Ry., Mt. Royal Tunnel. *TT 1: P 1: RC 1: D 0.5.* 1912 to 1913 Gen. Supt. of Constr., Barge Canal. *TT 1: P 1: RC 1: D 0.5.* 1913 to 1917 Pres., P. J. Moranti Co., Gen. Contrs., on Soft Ground Tunnel, Catskill Aqueduct, Silver Lake, Staten Island, N. Y., Sec. No. 5, pumping station, Passaic Valley Sewer, and (1915 to 1917) Sec. 10-C, Tunnel at Sedgwick Ave., New York City, for Board of Transportation, Interborough Rapid Transit. *TT 4: P 4: RC 4: D 4.* 1917 to date Cons. Engr., Eastern Mines Development Co., on shaft and tunnel work, until 1920 for Replogle Steel Co., Dover, N. J., and since then for Lehigh Coal & Navigation Co. Since 1924 also Pres., Moranti & Raymond, Inc., on construction of Route No. 78, Sec. No. 6-B, and Route No. 102, Sec. No. 1, Eighth Ave. Subway. *TT 9: P 9: RC 9.* *TT 24: SP 1: P 23: RC 23: D 7.* Refers to J. S. Bogardus, P. G. Brown, R. Ridgway, J. R. Slattery, B. H. Wait.

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(4) **MULDREW, WILLIAM THOMAS**, Jenkintown, Pa. (Age 42. Born Ashbourne, Pa.) Registered Prof. Engr. and Land Surveyor, State of Pennsylvania. 1905 to 1912 with City of Philadelphia, Pa., successively as Apprentice, Chainman, Rodman, Transitman and (2 years) Acting Asst. Engr., last 2 years, at times, had charge in field and supervised construction of sewers, paving of sewers, locating party walls, staking bridge abutments, etc. *TT 7: SP 7.* 1912 to date in private practice as Civ. Engr., until May 1917 associated with Walter C. Aucott, and since then alone, on municipal engineering, suburban development and surveying; work included plans and specifications for grading, paving, etc., supervision of construction of roads, walks, drives, small bridges, etc., (detailed statement of work forwarded with application). *TT 15: P 15: RC 15: D 15.* *TT 22: SP 7: P 15: RC 15: D 15.* Refers to C. D. Conklin, Jr., J. W. Hunter, C. F. Mebus, M. R. Pugh, J. C. Wagner.

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(1) **NADELMAN, AARON**, 124 East Forty-First St., New York City. (Age 35. Born Gloversville, N. Y.) Licensed Prof. Engr., New York State. 1914 B. S. in C. E., Cooper Union. *TT 2: SP 2.* April 1914 to Feb. 1916 Jun. Asst. Engr., Public Service Comm., New York City, on surveys for subways. *TT 1.9: P 1.9.* April to Aug. 1917 Engr., Pennsylvania Water & Power Co., Holtwood, Pa. *TT 0.3: P 0.3: RC 0.3.* Aug. 1917 to Feb. 1918 Inspector, U. S. War Dept., Wheeling, W. Va., in charge of surveys for lock construction on Ohio River. *TT 0.6: P 0.6: RC 0.6.* Feb. 1918 to Dec. 1919 Draftsman, Public Works Dept., U. S. Navy, Newport, R. I., designing steel and concrete buildings. *TT 1.8: P 1.8: RC 1.8: D 1.8.* Dec. 1919 to Jan. 1923 Structural Steel Designer with H. G. Balcom, New York City, on commercial buildings. *TT 3.1: P 3.1: RC 3.1.* Jan. 1923 to April 1924 Structural Engr. on buildings in New York City for various consulting engineers and architects. *TT 1.3: P 1.3: RC 1.3.* April 1924 to Sept. 1925 Chf. Draftsman and Engr., Seibach & Meyer Iron Works, West New York, N. J., on shop drawings and designs for new buildings. *TT 1.5: P 1.5: RC 1.5.* Feb. 1926 to date Structural Engr. on buildings, with William Wilson, New York City. *TT 1.1: P 1.1: RC 1.1.* *TT 13.6: SP 2: P 11.6: RC 9.7: D 1.8.* Refers to Z. Kline, E. P. Quirk, H. H. Sears, F. L. Stearns, W. Wilson.

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(1) **NARASINGAROW, UNGARALA**, Razole, East Godavari, Madras, India. (Age 30. Born Masulipatam, Kistna.) 1916 received diploma of Engr. Subordinate, Coll. of Eng., Madras, India. 1915 to 1920 with Public Works Dept., India, as follows: 1915 to 1916 on building and irrigation work; 1916-1917 Overseer, Dist. Board, at Ganjam, on special work, preparing estimates, etc.; 1917 to 1918 in charge of government college extension, construction of chemical laboratory, irrigation work, etc.; 1918 to 1919 in charge of buildings, construction and irrigation work, improvements to buildings; 1919 (6 months) on repairs to tanks and roads, laying new alignment to roads. *TT 4: SP 1: P 3: RC 0.5.* 1920 to 1921 with Blythe & Co., as Designer, Estimator, Supervisor of reinforced concrete works and Draftsman. *TT 1: P 1: RC 0.2: D 0.2.* 1921 Supervisor of building in Parola and Amotapur, including construction of nine school buildings; 1922 to 1926 Special Overseer in charge of construction of hospital buildings; July 1926 to date with Dist. Board as Sec. Officer in charge of roads and buildings, new extension construction, etc., including designing, preparation of drawings, estimates, etc. *TT 5: SP 1.5: P 3.5.* *TT 10: SP 2.5: P 7.5: RC 0.7: D 0.2.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(1) **OAKLEY, THOMAS BENJAMIN**, 20 Beach Ave., New Dorp, N. Y. (Age 44. Born Dudley, England.) Student (evenings) Cooper Union (April 1902 to April 1906) and Coll. of City of New York (Jan. 1911 to April 1922). April 1902 to Jan. 1905 Axeman, Instrumentman, Draftsman, Computer and Chf. of Party with H. P. Morrison, on surveying and construction, part of time on design of sanitary sewers and dock construction. *TT 2.8: SP 2.5: P 0.3: RC 0.3: D 0.3.* Jan. 1905 to April 1906 Transitman and Computer with Pres., Borough of Queens, Topographical Bureau, being Instrumentman and part of time in

charge of field party on planetable work. *TT 1.3: SP 0.8: P 0.5: RC 0.3.* April 1906 to date with Pres. Borough of Richmond, New York, as follows: April 1906 to July 1909 Transitman and Computer, in charge of field party giving lines and grades for sewer construction, on surveys for street layouts, paving, etc., and part of time on sewer design; July 1909 to Feb. 1924 Asst. Engr., in charge of field party on surveys and construction of sanitary and storm water sewers, on design of sewage-treatment plant and of electrical control apparatus, etc.; over eleven years in immediate charge of all sewer work in the Borough, designed automatic electrically operated sewage-pumping station; and 1½ years on highway construction and design, part of time in immediate charge of all contracts for grading and repaving streets; Feb. 1924 to May 1926 Engr. in Chg., being Asst. to Cons. Engr. (Head of Borough Bureau of Eng.), having general supervision of all construction work, including highway and sewer contracts, at times Acting Cons. Engr.; since May 1926 Borough Engr. in responsible charge of Bureau of Eng., including Topographic and Constructive Division. *TT 20: SP 1.5: P 18.5: RC 15.5: D 3.6. TT 25.2: SP 4.8: P 20.4: RC 16.1: D 3.9.* Refers to O. L. Brodie, H. K. Endemann, T. S. Oxholm, V. H. Reichelt, A. W. Tidd, R. W. Wood.

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(2) OBER, MILTON L'GRANDE EDWARDS, P. O. Drawer No. 160, New Milford, Conn. (Age 19. Born Bridgeport, Conn.) Aug. 1923 to May 1924 Rodman and Chainman, J. A. P. Crisfield Contr. Co. *TT 0.8: SP 0.8.* May 1924 to Jan. 1925 and July 1925 to date with U. G. I. Contr. Co., Philadelphia, Pa., as Rodman, Chainman and Instrumentman, inspecting, line and grade work, checking structural steel, assisting Cost Engr., etc. *TT 2.2: SP 2.2. TT 3: SP 3.* Refers to D. G. Follett, W. M. Hall, P. L. Heslop, H. J. Hoard, F. E. Lamphere, J. P. Laws.

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(11) O'REILLY, THOMAS CHARLES, 626 East Fifth St., Long Beach, Cal. (Age 25. Born Westcliffe, Colo.) Nov. 1919 to Dec. 1920 Rodman, Pima County Highway Comm., and (after Aug. 1920) Post Farm Irrigation Project. *TT 1.2: SP 1.2.* Jan. to Oct. 1921 Rodman and Levelman, California Highway Comm. *TT 0.8: SP 0.8.* Sept. 1922 to date Chainman, Draftsman, Instrumentman and Surveyor, City of Long Beach, Cal., on municipal improvements, topographical, hydrographical and mechanical construction. *TT 4.5: SP 4.5. TT 6.5: SP 6.5.* Refers to G. E. Baker, C. Johnson, H. Paterson, R. D. Van Alstine, L. G. Williams.

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(7) PARCEL, JOHN IRA, 622 Sixth St. S. E., Minneapolis, Minn. (Age 48. Born Westfield, Ill.) 1903 A. B., Westfield (Ill.) Coll. 1909 B. S. in C. E., Univ. of Ill. *TT 2: SP 2.* June 1906 to April 1907 Draftsman, American Bridge Co., Ambridge Plant, drafting and detailing on steel bridges, etc. *TT 0.8: SP 0.8.* April 1907 to Aug. 1908 and June to Sept. 1909 Draftsman, Bridge and Bldg. Dept., Chicago, Milwaukee & St. Paul Ry., Chicago, detailing, checking and designing. *TT 1.6: SP 1: P 0.6.* Sept. 1908 to June 1909 graduate student in Civ. Eng., and Sept. 1913 to Aug. 1914 Asst. Prof. of Structural Eng., Univ. of Illinois. *TT 1: P 1: RC 1.* Sept. 1909 to Aug. 1913 Instructor in, Sept. 1914 to Aug. 1920 Associate Prof. in charge of, and Sept. 1920 to date Prof. and Chf. of Div. of, Structural Eng., Univ. of Minnesota. Also June to Oct. 1918 Structural Engr., Emergency Fleet Corporation, U. S. Shipping Board, Philadelphia, Pa., design of reinforced concrete ship frames, etc.; April 1919 to Aug. 1921 and Jan. to April 1924 with Frederick M. Mann, Archt., Minneapolis, Minn., as Structural Engr. in full charge of structural design, Dental Clinic Bldg., Rochester, Minn., city jail, St. Cloud, Minn., etc., and (after Jan. 1924) Cons. Engr. reviewing and reporting on structural design of Univ. of Minnesota Memorial Stadium; Aug. 1924 to Jan. 1926 Cons. Engr. to Croft & Boerner, Archts. and Engrs., Minneapolis, in full charge of structural design of Minneapolis Municipal Auditorium. *TT 16.6: P 16.6: RC 12.6: D 4.8. TT 22: SP 3.8: P 18.2: RC 13.6: D 4.8.* Refers to D. A. Abrams, F. Bass, F. H. Constant, A. S. Cutler, O. M. Leland, F. R. McMillan, E. J. Mehren, A. F. Meyer, J. H. Prior, F. E. Schmitt, F. C. Shenehon, W. A. Slater, G. F. Swain, A. N. Talbot.

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(1) PERRY, ALBERT CURTIS, Sound Beach, Conn. (Age 44. Born Worcester, Mass.) 1905 C. E., Princeton Univ. *TT 2: SP 2.* Sept. 1905 to Sept. 1906 Timekeeper, J. G. White Co., New York City, on Laguna Dam, Yuma, Ariz. *TT 1: SP 1.* Feb. 1907 to Jan. 1909 with J. W. Bishop, Contrs., Worcester, Mass., as Engr. on Post Headquarters Bldg., West Point, N. Y. *TT 2: P 2.* Jan. 1909 to Feb. 1910 with Raymond Concrete Pile Co., New York City, as Asst. Supt. on Baltimore docks. *TT 1: P 1.* Feb. 1910 to Oct. 1915 Constr. Supt. with Cram & Ferguson, Archts., Boston, Mass. *TT 5.6: P 5.6: RC 5.6.* Oct. 1915 to date Gen.

Supt. of Constr., McKenzie, Voorhees & Gmelin, Archts., New York City. *TT 11.3: P 11.3: RC 9: D 2.3. TT 22.9: SP 3: P 19.9: RC 14.6: D 2.3.* Refers to R. A. Backus, R. L. Bertin, L. Hart, C. S. Proctor, J. W. Taussig, S. F. Voorhees.

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(8) **PETERSEN, LUDWIG**, 3506 Greenview Ave., Chicago, Ill. (Age 28. Born Copenhagen, Denmark.) Naval Archt., Coll. of Copenhagen. Sept. 1918–March 1922 with Burmeister & Wain, Ltd., Copenhagen, Denmark, 3 years as Apprentice in shops, 1 month Checker and 6 months on design of ships, etc. *TT 3.6: SP 3.1: P 0.5: D 0.5.* April 1922–March 1923 Asst. Naval Archt., United Steamship Co., Ltd., Copenhagen, on design and inspection of ships, buildings, etc. *TT 1: SP 0.5: P 0.5: D 0.5.* April to July 1923 with Cox & Stevens, Naval Archts., New York City, detailing ships. *TT 0.2: SP 0.2.* July 1923 to Feb. 1924 with Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa., on mechanical and structural detailing. *TT 0.6: SP 0.6.* Feb. 1924 to May 1925 and Aug. 1925 to May 1926 with South Park Commrs. of Chicago, Ill., as Structural Designer in charge of several continuous girder bridges, two 3-span cantilever bridges (\$1 200 000 each), preliminary design of concrete arch bridge, etc. *TT 1.9: P 1.9: RC 1.9.* May to Aug. 1925 Eng. Asst., Missouri Pacific R. R., St. Louis, Mo., on design of bridges. *TT 0.2: P 0.2: D 0.2.* May to Dec. 1926 Reinforced Concrete Designer, Roberts & Schaeffer Co., Chicago, on concrete building for coal-cleaning plant, Oakland City, Ind., several coal storage bins. *TT 0.6: P 0.6: D 0.6.* Dec. 1926 to date Bridge Designer, Illinois Central R. R., Chicago on design of catenary structure for electrification of Chicago Terminal. *TT 0.3: P 0.3: D 0.3. TT 8.4: SP 4.4: P 4: RC 1.9: D 2.1.* Refers to W. G. Arn, R. A. Black, W. J. Howard, C. R. Hoyt, R. C. Kellogg.

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(14) **PITZMAN, FREDERICK**, 615 Chestnut St., St. Louis, Mo. (Age 37. Born St. Louis, Mo.) 1911 B. S. in C. E., Washington Univ. *TT 2: SP 2.* May 1917 to March 1919 on engineering and surveying work, successively at Scott (Aviation) Field near Belleville, Ill., U. S. Arsenal Clothing Dept., Camp Funsten, Kans., and Ft. Sill, Okla. *TT 1.9: P 1.9.* Jan. 1912 to April 1917 and April 1919 to date with Pitzman's Co. of Surveyors and Engrs., 1½ years as Supt. of Constr. on development of Hillcrest (50-acre residential subdivision), St. Louis, and remainder of time Engr. in charge of design and construction on municipal engineering work, including residential subdividing, sewer systems, water and gas layouts, road work, industrial developments and layouts, including tracks and bridges, erection of industrial buildings, levee building, permeable dikes, etc. *TT 13.3: P 13.3: RC 6: D 5.7. TT 17.2: SP 2: P 15.2: RC 6: D 5.7.* Refers to B. L. Brown, E. A. Hadley, E. A. Hermann, F. G. Jonah, W. S. Mitchell, J. C. Travilla, E. E. Wall.

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(4) **REEDER, ARTHUR LOWRIE**, 25 North Eleventh St., Reading, Pa. (Age 47. Born Camden, N. J.) Registered Prof. Engr., State of Pennsylvania. 1896 A. B., Central High School, Philadelphia, Pa. 1900 B. S. in E. E., Univ. of Pa. *TT 2: SP 2.* June 1900 to Feb. 1902 Special Apprentice, New York Shipbuilding Co., Camden, N. J., and (after Feb. 1902) Wm. Cramp & Sons' Ship & Engine Bldg. Co., on machinery installation, bench and machine work in machine shop. *TT 1.6: SP 1.6.* March to May 1902 Draftsman, Baldwin Locomotive Works, Philadelphia. *TT 0.2: SP 0.2.* May 1902 to Sept. 1909 with Filtration Bureau, Philadelphia, on drafting, design, specifications, construction and maintenance of electrical installations, etc. *TT 7.3: SP 3.3: P 4: RC 1: D 2.* Sept. 1909 to June 1910 drafting and computations, Survey Bureau, Philadelphia. *TT 0.8: SP 0.5: D 0.3.* June 1910 to Dec. 1915 Designing Engr., Chf. Draftsman and Prin. Asst. Engr., Baltimore City Water Dept., on design of dam and 128 000 000-gal. mechanical filter plant. *TT 5.5: P 5.5: RC 1.5: D 2.* March to Dec. 1916 Asst. Engr. with Hill & Ferguson, New York City, on water supply and purification, sewage treatment, etc. *TT 0.7: P 0.7: D 0.7.* Dec. 1916 to June 1917 Asst. Engr. with James H. Fuertes, New York City, on city planning, water supply and sewage treatment plant design. *T T 0.5: P 0.5: RC 0.3: D 0.3.* Nov. 1917 to Feb. 1918 with Day & Zimmermann, Inc. on appraisal work. *TT 0.2: SP 0.2.* May 1918 to June 1920 with Pennsylvania Dept. of Health, Eng. Div., Design and Constr. Sec., as Asst. Engr. and (part of time) Sec. Chf. on investigations, reports, plans, specifications, estimates, surveys and supervision of construction. *TT 2.2: P 2.2: RC 0.5: D 1.* June 1920 to June 1921 Senior Asst. Engr., Cleveland Div. of Water, on underpinning, filter-plant design, studies in chemical solution, etc. *TT 0.9: P 0.9: D 0.9.* June 1921 to March 1924 Civ. Engr., Bureau of Water, Reading, Pa., on improvement program and studies. *TT 2.8: P 2.8: RC 1.5: D 1.* March 1924 to Dec. 1925 with Gannett, Seelye & Fleming, Engrs., Inc., Harrisburg, Pa., in charge of all design, including dams, filter plants, pumping stations, sewerage, also specifications. *TT 1.7: P 1.7: RC 1.7: D 1.3.* Jan. 1926 to date Engr., Bureau of Water, Improvement Div., Reading, in charge of addition (\$4 500 000) to water supply. *TT 1.2:*

P 1.2: RC 1.2: D 0.5. TT 27.6: SP 7.8: P 19.8: RC 7.7: D 9.7. Refers to J. W. Ellms, C. A. Emerson, Jr., H. E. Moses, E. L. Nuebling, V. B. Siems, E. B. Whitman, G. F. Wieghardt.

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(4) **RENSHAW, JOHN ARTHUR**, 36 Saxer Ave., Springfield, Pa. (Age 38. Born Philadelphia, Pa.) Registered Prof. Engr. and Land Surveyor, Commonwealth of Pennsylvania. 1913 graduated in Civ. Eng., Drexel Evening School of Eng. July 1906 to April 1918 with City of Philadelphia, Pa., as follows: July 1906 to Feb. 1907 Rodman, Filtration Bureau, computations, estimates, etc.; Feb. 1907-Aug. 1912 with Survey Bureau, as Transitman on surveys, computations, etc., acting as Party Chf. or Asst., and 1½ years Draftsman on plans, computations for Parkway, etc., grading and sewer estimates; Aug. 1912 to Sept. 1913 Eng. Inspector, road construction contracts, Bureau of Highways; Sept. 1913 to April 1918 Asst. Engr., Dept. of City Transit, one year in charge of field party on preliminary surveys, etc., for subway and elevated lines; one year office work on track layout sewer and subway design, including original profile for Frankford Elevated, calculations for design of main supporting girders for City Hall, being Designer and Checker on plans for columns, footings and steel-work of southern section of City Hall subway station, etc., three years in charge of field corps on construction of sewers, elevated footings and foundations for Frankford Elevated, driving concrete piles, etc. and one year on concrete reinforcing design for large concrete girders of City Hall Station, estimates, construction plan, etc., for track layouts and connections. *TT 11.4: SP 6.9: P 4.5: RC 3: D 1.5.* April 1918-Sept. 1921 with Emergency Fleet Corporation, until May 1919 as Engr., Passenger Transportation Div., in charge of plans and layouts for construction or extensions of electric passenger lines, 10 months in responsible charge in field of \$1 000 000 contract for construction of electric railway and macadam highway between Darby and Chester, Pa., acted as Govt. Engr. and Representative on rehabilitation of Southern Pennsylvania Traction Co. lines in Delaware County, and as Sales Engr. in disposal of excess and salvage materials; after May 1919 Engr. and Examiner, Vice-Pres.'s office, on reorganization and efficiency work. *TT 3.5: P 3.5: RC 0.9: D 0.5.* Oct. 1921 to Jan. 1927 Asst. Engr., Delaware River Bridge Joint Comm. of Pennsylvania and New Jersey; about 9 months in charge of survey party, later on studies, plans, calculations, estimates, etc. for street and bridge grade and line revisions, sewer systems, bridge construction, approach boulevards, etc., made traffic studies; designed masonry and concrete retaining walls, reinforced concrete beams and slabs for street support and supervised setting of steel reinforcing and construction; made studies and plans for track layout for high-speed and subway lines, plans for track layout of a subway station, etc. *TT 5.3: P 5.3: RC 3.5: D 3.* Jan. 1927 to date Engr., Public Service Comm., Commonwealth of Pennsylvania on investigations, analyses, reports and recommendations as to electric railway service and operation, etc., in connection with traffic and transportation survey at Philadelphia. *TT 0.3: P 0.3: RC 0.3. TT 20.5: SP 6.9: P 13.6: RC 7.7: D 5.* Refers to M. B. Case, R. G. Cone, C. Elcock, S. Harris, C. E. Parry, H. H. Quimby, F. H. Snow, G. S. Webster.

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(1) **REYNOLDS, JAMES ROBERT**, 10756 121st St., Richmond Hill, N. Y. (Age 22. Born Brooklyn, N. Y.) 1926 C. E., Manhattan Coll. *TT 2: SP 2.* Sept. 1925 to date Jun. Engr., New York Central R. R., on surveys and schemes for grade-crossing eliminations. *TT 1.5: SP 1.5. TT 3.5: SP 3.5.* Refers to W. H. Burr, J. O. Eckersley, G. W. Kittredge, G. H. Pegram, W. H. Yates.

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(6) **RIGGS, ISAAC LARKIN**, P. O. Box 26, Morgantown, W. Va. (Age 30. Born Morgantown, W. Va.) Sept. 1915 to June 1917 student, Coll. of Eng., West Virginia Univ. *TT 0.6: SP 0.6.* Sept. 1917 to Aug. 1918 Rodman with Baritell & Morris, Huntington, W. Va., surveying, staking out tipples, etc. *TT 0.9: SP 0.9.* July 1918 to April 1919 Machinist's Mate, 2d Class, U. S. Naval Reserve Force, at Cherrystone Island Naval Base, Cape Charles, Va., mixing and placing concrete for foundations, placing piling and general construction. *TT 0.7: SP 0.7.* June 1919 to April 1920 Draftsman and Computer, Monongalia County Road Dept., on plans for highway construction, bridge locations, right-of-way maps, etc. *TT 0.8: SP 0.8.* April to June 1920 Rodman, Consumers Fuel Co. (Bertha Coal Co.), on triangulation, surveys, etc. *TT 0.2: SP 0.2.* June to Aug. 1920 on topographic mapping, Reserve Officers' Training Camp, U. S. Army, Camp Custer, Mich. *TT 0.2: SP 0.2.* Sept. 1920 to May 1921 Office Engr. with Baritell Bros., Morgantown, computing and plotting surveys, track layouts, railroad construction, assisted in design of coal tipples and coal-handling machinery, maps, etc. *TT 0.6: P 0.6: RC 0.6: D 0.3.* May to July 1921 Asst. to County Engr., Harrison County, W. Va., in charge of design for highway construction, field work in location and construction. *TT 0.2: P 0.2: RC 0.2: D 0.2.* July 1921 to date Asst. Engr., West Virginia State Road Comm., in full charge of plans and design for

highway construction (approx. \$15 000 000) in Div. No. 4, including location, drainage, computation and compilation of data, tables and standards for survey and construction work, estimates and reports on proposed construction, reconstruction, elimination of grade crossings, cost data, etc. *TT 5.7: P 5.7: RC 5.7: D 5.7. TT 9.9: SP 3.4: P 6.5: RC 6.5: D 6.2.* Refers to A. J. Baritell, L. V. Carpenter, R. P. Davis, W. S. Downs, C. R. Duncan, C. Swecker.

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(4) **ROTH, CHARLES OLIVER, Jr.**, 206 East Gravers Lane, Chestnut Hill, Philadelphia, Pa. (Age 24. Born Philadelphia, Pa.) 1925 B. S. in Civ. Eng., Univ. of Del. *TT 2: SP 2.* Summers 1922-1924 and June 1925 to date Rodman, Transitman and Draftsman, Reading Co., 2 years designing and detailing in Bridge Dept. Since Sept. 1926 also Instructor in Civ. Eng., Drexel Inst. (Evening School). *TT 1.8: SP 1.8. TT 3.8: SP 3.8.* Refers to P. S. Baker, C. Dillenbeck, C. H. Hitchcock, R. J. Lawrence, F. G. Schworm, W. Sebastian.

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(11) **ROWE, RAPHAEL ROBINSON**, 4267 Witherby St., San Diego, Cal. (Age 30. Born Spencer, Mass.) 1916 A. B., and 1918 S. B., Harvard Univ. 1918 B. S., Mass. Inst. Tech. *TT 2.* Aug. 1918-Oct. 1919 with Engrs., U. S. Army, 3 months as Private, at Washington Barracks, D. C., and Engr. Officers' Training School, Camp A. A. Humphreys, Va., then (1 year) 2d Lieut., with troops and (after Dec. 1918), Historical Data Sec., on compilations, reports, historical sketches and editing. *TT 1.2: RC 0.3.* Dec. 1919 to April 1920 Estimator with Frank Hill Smith, Inc., Dayton, Ohio, estimating reinforced concrete industrial plants, design of reinforced concrete columns and beams, appraisals. *TT 0.3: D 0.1.* April 1920-June 1923 Jun. Engr., Water Resources Branch, U. S. Geological Survey, stream gauging, construction of gauge houses and cable crossings, power survey, reconnaissance, computations, reports and editing. *TT 3.1: RC 2.1.* June 1923 to Jan. 1926 Business Mgr., Rowe Motor and Market Shops, San Diego, Cal. Jan. to March 1926 Computer and Topographer, Waterman Eng. Co., being Office Engr. in charge of subdivision layout and improvement plans and Chf. of Party for 130 acres of topographic mapping. *TT 0.1: RC 0.1.* March 1926 to date Asst. Engr., The Southlands Corporation, San Diego, on subdivision layout and improvement plans, including sewer layout, water, gas, electric conduits, curbs, paving, part of time in charge of Computing Sec. and title search. Since March 1920 also First Lieut., Engr. Reserve, U. S. Army, about 1 month training in military engineering, design of military bridges, etc., also work in explosives, demolition, map reading, and reconnaissance. *TT 1: RC 0.7: D 0.2. TT 7.8: RC 3.3: D 0.3.* Refers to J. A. Beemer, W. E. Dickinson, R. A. Floyd, G. W. Malone, A. B. Purton.

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(11) **RULE, RHODES ELMORE**, 920 Eighth St., San Diego, Cal. (Age 26. Born St. Louis, Mo.) Student, Univ. of Chicago (Jan. to March 1918) and Washington Univ., St. Louis (Sept. 1918 to June 1920). *TT 0.7: SP 0.7.* April to Aug. 1918 Draftsman, Milwaukee (Wis.) Elec Light & Ry. Co. *TT 0.4: SP 0.4.* Aug. 1918 Electrician's Helper, Federal Rubber Co., Cudahy, Wis. June 1919 Electrician, J. G. White Constr. Co. July to Sept. 1919 Draftsman, successively with Western Elec. Co. and L. Wolf Co., Chicago. June to Sept. 1920 and May to Nov. 1921 visiting construction jobs in Colorado, Utah and Nebraska, Oct. 1920 to April 1921 Chairman and Rodman, Southern California Edison Co., Big Creek, Cal. *TT 0.6: SP 0.6.* May 1921 Miner, enlarging tunnel, San Joaquin Light & Power Co. Dec. 1921 to June 1922 Asst. to Assayer, and Miner, United Comstock Mines Co., Virginia City, Nev. *TT 0.5: SP 0.5.* July 1922 to Feb. 1923 surveying mining claims, contracting assessment work and prospecting near Virginia City. *TT 0.4: SP 0.4.* March to April 1923 Rodman, Southern Pacific Ry. *TT 0.1: SP 0.1.* June 1923 to Feb. 1924 with San Dieguito Irrigation Dist., successively as Rodman, Transitman, Chf. of Party and Field Engr. *TT 0.7: SP 0.6: P 0.1: RC 0.1.* Feb. 1924 to date with Thomas H. King, San Diego, Cal., as Associate Engr. acting as Prin. Asst. in charge of field and office work including preliminary investigations, supervision of design, plans, specifications and construction on irrigation and water-supply projects in San Diego and Imperial Counties, Cal., and two highway and municipal improvement projects. *TT 3.1: P 3.1: RC 3.1: D 2. TT 7.2: SP 3.8: P 3.4: RC 3.4: D 2.* Refers to E. C. Eaton, E. Flad, W. L. Huber, T. H. King, C. H. Lee, C. B. Sadler, P. R. Watson.

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(1) **SCOTT, JAMES CHADWICK**, 142 Arlington Ave., Jersey City, N. J. (Age 40. Born Philadelphia, Pa.) 1906 graduated from Drexel Inst., Philadelphia, Pa. Six months Draftsman, Baldwin Locomotive Works, Philadelphia, tracing. *TT 0.5: SP 0.5.* Jan. 1907 to Oct. 1910 Chainman, Rodman, Instrumentman and Chf. of Party, May 1911 to Feb. 1914 Asst. Engr. and Feb. 1914 to March 1916 Res. Engr., on construction of Astoria Gas Tunnel, East River, and March 1919 to May 1920 Constr. Engr., relining Hudson & Manhattan R. R.

land tunnels, Jersey City, N. J., all for Jacobs & Davies, Inc., New York City. *TT 9.7: SP 6.4: P 3.3: RC 3.3.* Oct. 1910 to May 1911 Asst. Engr. with L. B. Stillwell, New York City, on electrification of Hoosac Tunnel, North Adams, Mass. *TT 0.7: SP 0.7.* April to Aug. 1916 Constr. Engr. with Ford, Bacon & Davis, New York City, on lining Scranton (Pa.) Tunnel. *TT 0.4: P 0.4: RC 0.4.* Sept. 1916 to Feb. 1919 Inspector of munitions, British War Mission, New York, Pittsburgh and Youngstown Dist., organization and supervision of inspection of raw steel and forgings. *TT² 2.5: P 2.5: RC 2.5.* July 1920 to Sept. 1922 Field Engr. with A. D. Neeld, Pittsburgh, Pa., on construction of Liberty Tunnels, Pittsburgh. *TT 2.3: P 2.3: RC 2.3.* Sept. 1922 to Feb. 1926 Constr. Supt. with Booth & Flinn, Ltd., New York City, on construction of Hudson River Vehicular Tunnels and New Jersey land approach, trunk sewers and sewage-screening plant, Borough of Queens, New York City, and on completion of Liberty Tunnels, Pittsburgh. *TT 3.4: P 3.4: RC 3.4.* Feb. 1926 to date Engr., Underpinning & Foundation Co., New York City, estimates, and designs, subway and building foundation construction. *TT 1: P 1. TT 20.5: SP 7.6: P 12.9: RC 11.9.* Refers to J. V. Davies, C. S. Gleim, B. H. M. Hewett, A. D. Neeld, G. W. Schusler, F. S. Storey, J. H. Weir.

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(9) SEEGER, ORVILLE HENRY, 35 Kelso Road, Columbus, Ohio. (Age 26. Born Dayton, Ohio.) 1925 B. C. E., Ohio State Univ. *TT 2: SP 2.* Feb. 1923 to Jan. 1924 Draftsman, Ohio Fuel Gas Co., Columbus, Ohio. *TT 1: SP 1.* Jan. 1927 to date Draftsman, Sewer Dept., Div. of Eng., Columbus. *TT 0.2: SP 0.2. TT 3.2: SP 3.2.* Refers to O. Bonney, F. H. Eno, F. W. Jennings, C. T. Morris, J. C. Prior, J. R. Shank, R. C. Sloane.

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(15) SETTLE, FRANCIS CARR, Pryor, Okla. (Age 36. Born Fayetteville, W. Va.) June 1910 to June 1911 student, Univ. of Cincinnati. *TT 0.3: SP 0.3.* July to Oct. 1911 Levelman under County Engr., Fayette County, W. Va. *TT 0.2: SP 0.2.* April 1913 to Aug. 1916 on surveys and subdivisions, until Jan. 1914 as Instrumentman and Chf. of Party for Lake Highwaylands Co., Lake County, Fla., then as Land Surveyor, Clermont, Fla. *TT 3.2: SP 3.2.* Sept. to Nov. 1916 Concrete Inspector, Muskogee County, Okla., on bridges and culverts. *TT 0.2: SP 0.2.* Nov. 1916 to April 1917 and Jan. to April 1920 Chf. of Party on highway location, Hughes County, Okla., and (1920) DeKalb County, Okla. *TT 0.6: SP 0.6.* April 1917 to Sept. 1918 Asst. County Engr., and Sept. 1918 to Sept. 1919 County Engr., Haskell County, Okla., on road and bridge plans, location and construction. *TT 2.4: SP 1.4: P 1: RC 1.* July 1920 to Nov. 1924 County Engr., Mayes County, Okla., on road and bridge location and plans, bridge and culvert design. *TT 4.3: P 4.3: RC 4.3: D 1.* May to Oct. 1926 City Engr., Pryor, Okla., on design and supervision of concrete pavement. *TT 0.4: P 0.4: RC 0.4: D 0.1.* Nov. 1924 to May 1926 and Oct. 1926 to date Res. Engr., Oklahoma State Highway Comm., on survey, plans and supervising construction, and gravel surfacing State Aid Projects. *TT 2: P 2: RC 2: D 0.2. TT 13.7: SP 6: P 7.7: RC 7.7: D 1.3.* Refers to E. S. Alderman, E. V. Camp, T. P. Clonts, G. C. Dobson, R. C. Gray, J. M. Page.

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(13) SHUEY, GEORGE RUSSELL, 1084 South Virginia St., Reno, Nev. (Age 47. Born Walnut Creek, Cal.) 1904 B. S., Univ. of Cal. *TT 2: SP 2.* May to Sept. 1904 Rodman and Chairman, with City Engr., Berkeley, Cal., being Asst. on surveys, sewer work, subdivisions, etc. *TT 0.3: SP 0.3.* Sept. 1904 to March 1905 Rodman and Chairman with H. Donegan, Engr., San Francisco, Cal., being Asst. on subdivision work, etc. *TT 0.5: SP 0.5.* July to Aug. 1905 Rodman with O. K. Parker, Los Angeles, Cal., on Long Valley reservoir survey. *TT 0.1: SP 0.1.* Nov. 1905 to April 1926 with City of Los Angeles, in Owens Valley, engaged as follows: Nov. 1905 to Aug. 1907 Hydrographer for Los Angeles Aqueduct, established gauging stations, in charge of observers, on meter work and computations; Aug. 1907 to July 1919 Asst. Engr. and Land Supt., in charge of maintenance and operation of canals and ditches, maintaining water rights, etc.; Aug. 1919 to April 1926 Asst. Engr., in charge of well drilling and pumping operations, etc. (3 years), of preliminary hydraulic surveys of proposed Kings River power development (11 months), and of drilling, testing and pumping of deep wells (2½ years). *TT 20.7: P 20.7: RC 20.7.* Sept. to Oct. 1926 with King & Malone, Engrs., in charge for Lovelock Irrigation Dist., on test wells at damsite near Oreana, Nev. *TT 0.1: P 0.1: RC 0.1. TT 23.7: SP 2.9: P 20.8: RC 20.8.* Refers to E. A. Bayley, A. J. Ford, W. W. Hurlbut, J. B. Lippincott, W. Mulholland, O. W. Peterson, A. L. Sonderegger.

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(7) SOFFE, BENJAMIN, 4059 Elmhurst St., Detroit, Mich. (Age 32. Born Philadelphia, Pa.) 1914 B. S. in C. E., Univ. of Pa. *TT 2: SP 2.* June to Oct. 1914 Inspector on concrete road construction, Association of American Portland Cement Mfrs., Philadelphia, Pa. *TT 0.3: SP 0.3.* May to Sept. 1915 with Lloyd T. Emory, Philadelphia, on design and in

charge of road construction, platting and plotting survey work, reports, etc. *TT 0.3: P 0.3.* Sept. 1915 to Oct. 1917 with Hungerford & Terry, Clayton, N. J., on design and supervision of construction of settling basins, reservoirs and filtration plants, also sales engineering. *TT 2.1: P 2.1: RC 0.6.* Oct. 1917 to May 1919 with Stone & Webster, Inc., American Ship-building Corporation, Hog Island Ship Yard, Essington, Pa., until Jan. 1918 as Asst. Chf. of shop survey parties, then Chf. of shipway group No. 5 survey parties. *TT 1.6: P 1.6.* May 1919 to April 1920 Appraisal Engr., on ship and shipyard materials and equipment, Emergency Fleet Corporation, Philadelphia. *TT 0.9: P 0.9.* April 1920 to date Sales Engr., The Permutit Co., New York City, on design, layout and sales of apparatus for water softening, water filtration, etc. *TT 7: P 7: RC 3.5. TT 14.2: SP 2.3: P 11.9: RC 4.1.* Refers to H. F. Anthony, E. M. Burd, L. T. Emory, R. G. England, F. H. Stephenson.

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(3) **STERLING, CHARLES SLEEPER**, 870 Washington Ave., Albany, N. Y. (Age 48. Born Watkins, N. Y.) Licensed Prof. Engr. and Land Surveyor, New York State. 1902 Ph. B., Colgate Univ. Sept. 1902 to June 1903 Instructor in mathematics, Mercersburg (Pa.) Acad. July 1903 to Sept. 1906 with M. of W. Dept., Pennsylvania R. R., until March 1906 as Rodman, Cambria & Clearfield Div., Cresson, Pa., drafting, etc., in charge of survey party on right-of-way, preliminary and location work, in charge of construction of new branches, double-tracking, bridges, buildings, culverts, yards, etc., design of bridge masonry arch culverts and freight houses; after April 1906 Transitman, at Altoona, Pa., in charge of surveys; made detailed survey and map of Enola Classification Yard (about 175 miles of track). *TT 3.3: SP 0.5: P 2.8: RC 1.7: D 1.* Oct. 1906 to Jan. 1907 Engr., J. R. Potter & Co., Contra., Woodstock, N. J., in charge of estimates and field work for construction of double-track electric railway. *TT 0.3: P 0.3: RC 0.3.* Feb. to Sept. 1907 Tax and Industrial Agt., Lehigh Valley R. R., Geneva, N. Y., in charge of assessment valuation of property and of locating industries on Company's lines. *TT 0.7: P 0.7: RC 0.7.* Nov. 1907 to March 1908 and July 1910 to Aug. 1911 in private practice at Watkins, N. Y., on surveys and plans, and (part of time) instruction in mathematics. *TT 1.5: SP 0.6: P 0.9: RC 0.9.* April to June 1908 Engr., Juruagua Iron Co., Firmeiz, Cuba, in charge of a railroad survey. *TT 0.2: P 0.2: RC 0.2.* July 1908 to Sept. 1909 not on engineering work. Oct. 1909 to June 1910 Engr., New York State Barge Canal Terminal Comm., Albany, N. Y., in charge of surveys, design, plans and estimates for harbors and terminals at Buffalo, Rochester, Oswego, and other places in New York. *TT 0.8: P 0.8: RC 0.8: D 0.8.* Sept. 1911 to June 1912 Master of Mathematics, Morristown (N. J.) School for Boys. July 1912 to July 1915 in private practice at Watkins, on surveys, plans, estimates and construction of highway bridges and culverts, valuation of industrial plants, including Watkins Salt Co. and Lembeck & Betz Brewing Co., investigation and study of proposed draining of the Catherine Marsh at head of Seneca Lake, estimates, consultation with highway contractors, etc. *TT 3.1: P 3.1: RC 3.1: D 31.* Aug. 1915 to April 1918 Inspector of Eng. Works and Jun. Asst. Engr., New York State Highway Dept., Hornell, N. Y., on surveys, estimates, supervision of construction; also in charge of construction (6 miles) in Schuyler County. *TT 2.7: P 2.7: RC 0.6.* May to July 1918 Capt., Engr. Reserve Corps, U. S. Army, at Camp Lee, Petersburg, Va. *TT 0.2: P 0.2: RC 0.2.* Aug. 1918 to Dec. 1924 Jun. Asst. Engr., New York State Dept. of State Engr. and Surveyor, Rochester, N. Y., on surveys, estimates and inspection of construction of Mohawk Dam and sector gates in Rochester Harbor; also in charge of construction of gantry crane, brick pavement, railroad tracks, concrete viaduct, etc., on Rochester Terminal, and of power house at Palmyra, N. Y. *TT 6.3: P 6.3: RC 2.7.* Jan. 1925 to date Civ. Engr., associated with Frank M. Williams, Cons. Engr., Albany, N. Y., on investigation, study and compilation of reports on hydraulic and hydro-electric projects, power and efficiency tests in manufacturing plants, design, estimates and construction of industrial water supply and sewage disposal, estimates, plans, specifications, etc. *TT 2.2: P 2.2: RC 2.2: D 2.2. TT 21.3: SP 1.1: P 20.2: RC 13.4: D 7.1.* Refers to H. W. DeGraff, R. G. Finch, W. B. Landreth, J. A. O'Connor, B. E. White, F. P. Williams.

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(4) **STERN, MITCHEL**, 4145 Lancaster Ave., Philadelphia, Pa. (Age 23. Born Philadelphia, Pa.) 1925 C. E., Drexel Inst. Nov. 1924 to date with American Iron Works Co., Inc., Camden, N. J. *TT 2.5: SP 0.5: P 2: RC 1: D 0.5.* Refers to J. J. Albertson, A. Dana, W. H. Gravell, H. J. Sherman, L. F. Smith.

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(13) **STEWART, ROBERT MILLER**, 2834 Twenty-First Ave., Oakland, Cal. (Age 30, Born Seattle, Wash.) April 1920 to Feb. 1922 Gen. Office and Fieldman for P. A. Haviland and Harmon S. Bonte, acting as Instrumentman, Inspector, Chf. of Party, Hydrographer and Draftsman on street work, tile drainage, levee design and construction, stream measurement. *TT 1.9: SP 1.5: P 0.4: RC 0.4: D 0.4.* March 1922 to May 1923 Asst. Hydrographer, San

Joaquin Hydrographic Survey, Div. of Water Rights, California, determining uses and duties of San Joaquin River and its tributaries, making runoff curves and rating graphs, etc. *TT 1.2: SP 0.2: P 0.9: RC 0.9.* May to June 1923 Chf. of Party in charge of reevaluation of canal system, Madero (Cal.) Irrigation Dist. *TT 0.2: P 0.2: RC 0.2.* June 1923 to May 1924 with Thebo, Starr & Anderton, San Francisco, Cal., until Aug. 1923 as Draftsman on reservoir topography, designs of earth and rockfill dams, and estimates, then Chf. of Party and Instrumentman on relocation, Yosemite Valley R. R. for Merced Irrigation Dist., location of line, cross-sections and computations. *TT 0.8: SP 0.5: P 0.3: RC 0.3.* May to Aug. 1924 Draftsman and Chf. of Party for Lloyd Bowman, Santa Cruz, Cal., on subdivision layout and computations and resurvey of old land grants. *TT 0.2: SP 0.1: P 0.1: RC 0.1.* Aug. 1924 to May 1926 Field Engr., City of Vallejo on Gordon Valley Project, in charge of layout and construction of earth fill dam and 24 miles of pipe line; Chf. Hydrographer in study of runoff and seepage. *TT 1.8: P 1.8: RC 1.8: D 0.7.* May to Oct. 1926 Planetable Operator and Chf. of Party for H. A. Kluegel, San Francisco, on hydro-electric development of American and Rubicon Rivers. *TT 0.4: P 0.4: RC 0.4.* Oct. to Nov. 1926 Draftsman for Rudolph Van Norden, San Francisco, on layout of hydro-electric plant. *TT 0.1: SP 0.1.* Nov. to Dec. 1926 Chf. of Party for A. Kempkey, San Francisco, on preliminary investigation of dam sites, reservoir and canal systems for irrigation development. *TT 0.2: P 0.2: RC 0.2.* *TT 6.8: SP 2.5: P 4.3: RC 4.3: D 1.2.* Refers to H. Barnes, P. R. R. Bisschop, E. E. Blackie, W. B. Boggs, H. S. Bonte, R. G. Clifford, A. Kempkey, H. A. Kleugel, D. W. Ormsbee, R. W. Reynolds, A. M. Torpin, R. W. Van Norden.

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(1) STIEFEL, ALFRED CARL, 567 East Twenty-Sixth St., Brooklyn, N. Y. (Age 28. Born Burlington, Iowa.) 1921 B. S. in C. E., Univ. of Colo. *TT 2: SP 2.* Summer 1917 Topographer on irrigation survey, U. S. Reclamation Service, Denver, Colo., made maps. Summer 1918 Transitman, and summer 1919 Levelman, U. S. Bureau of Public Roads, Denver. Summer 1920 and Sept. 1920 to June 1921 (while student) Timekeeper and Stores Clerk, on construction of Liberal Arts Bldg., Univ. of Colorado, Boulder, Colo. June 1921 to Sept. 1922 Asst. Engr., City Engr.'s office, Davenport, Iowa. *TT 1.2: SP 0.5: P 0.7: RC 0.7: D 0.5.* Sept. 1922 to March 1924 Field Engr. on irrigation, railroad and land survey work, Truxillo R. R. Co., Puerto Castilla, S. Honduras. *TT 1.6: P 1.6: RC 1: D 1.* April 1924 to March 1925 Designer and Draftsman of reinforced concrete and steel for buildings, until Dec. 1924 with Truscon Steel Co., then with Dwight P. Robinson Co., New York City. *TT 0.9: P 0.9: RC 0.5: D 0.5.* March 1925 to date Checker of structural plans and subcontract work for industrial buildings, Turner Constr. Co., New York. *TT 2: P 2: RC 0.8: D 0.3.* *TT 7.7: SP 2.5: P 5.2: RC 3: D 2.3.* Refers to F. E. Barnes, I. C. Crawford, F. R. Dungan, R. K. Earle, E. G. Haines, A. I. Heim, W. C. Huntington, J. B. Marcellus, A. E. Palen, D. B. Steinman, H. C. Turner.

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(1) STORLIE, GOTTFRED, 43 Main St., Potsdam, N. Y. (Age 33. Born Tuedestrand, Norway.) 1918 C. E., Norwegian Inst. Tech., Trondhjem, Norway. *TT 2: SP 2.* July to Sept. 1917 Surveyor, Norwegian Highway Dept. July 1918 to Feb. 1924 Asst. Engr., Norwegian Govt. Hydr. Dept., supervised field investigations for and on plans, designing, detailing and estimating of hydro-electric power plants. *TT 7.6: P 7.6: RC 1.5: D 2.* March 1926 to date Draftsman, Wilputte Coke Oven Corporation, steel and concrete for coke-oven plants. *TT 0.6: P 0.6.* *TT 10.2: SP 2: P 8.2: RC 1.5: D 2.* Refers to A. P. Andersen, B. Arneberg, A. H. Aas, H. C. Borchgrevink, E. D. Meyer.

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(8) STUBBS, FRANK WHITWORTH, Jr., 1108 West Nevada St., Urbana, Ill. (Age 28. Born Mancos, Colo.) 1921 B. S. in C. E., and 1926 C. E., Univ. of Colo. *TT 2: SP 2.* Sept. 1920 to June 1922 Asst., and Sept. 1921 to June 1923 Instructor, Dept. of Eng. Mathematics, Univ. of Colorado. *TT 1.6: P 1.6.* June to Sept. 1922 Rodman and Masonry Inspector on double-track construction, Atchison, Topeka & Santa Fe Ry., at Kingman, Ariz. *TT 0.2: SP 0.2.* June 1923 to March 1925 with Lakeside Constr. Co., on construction of Valmont Plant, Public Service Co. of Colorado, until Sept. 1923 as Draftsman, then Inspector, and after Feb. 1924 estimating budget and unit-cost work. *TT 1.8: SP 0.7: P 1.1: RC 1.1.* March 1925 to Sept. 1926 Draftsman, Bridge Dept., Illinois Central R. R., Chicago, on design of lining for tunnels, concrete subways, etc. *TT 1.5: SP 0.5: P 1: RC 0.8: D 1.* Sept. 1926 to date Instructor, Dept. of Civ. Eng., Univ. of Illinois. *TT 0.6: P 0.6: RC 0.6.* *TT 7.7: SP 3.4: P 4.3: RC 2.5: D 1.* Refers to I. C. Crawford, H. Cross, F. R. Dungan, C. L. Eckel, W. C. Huntington, M. S. Ketchum.

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(2) **TENNEY, ARTHUR ARNOLD**, 102 Pleasant St., Fitchburg, Mass. (Age 44. Born Fitchburg, Mass.) 1904 C. E. Rens. Pol. Inst. *TT 2: SP 2*. 1904 to 1909 Estimator and Engr., H. Wales Lines Co., Meriden, Conn. *TT 5: SP 5*. 1909 to date Purchasing Agt., Supt. and Treas., Fitchburg (Mass.) Steam Engine Co. *TT 18: SP 8: P 10: RC 10: D 8. TT 25: SP 15: P 10: RC 10: D 8*. Refers to E. R. Cary, T. R. Lawson, E. F. Miller, P. C. Ricketts, C. B. Stanton.

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(3) **TROTTER, HAROLD LYNDRIDGE**, 1111 Beaver Hall Hill, Montreal, Que., Canada. (Age 44. Born Montreal, Que., Canada.) 1903, Royal Mil. Coll. of Canada. June 1903 to 1913 with Ross & Holgate, Engrs., Montreal, as follows: June 1903 to March 1904, drafting, Rodman on surveys, Resident on water power development St. Francis River; March to May 1904 representing firm, Resident at Angus Shops, Canadian Pacific Ry., Montreal, on equipment of power house and boiler plant; June 1904 to June 1905 Asst. Engr. on construction, West Kootenay Power & Light Co., in charge of laying out and cement testing; July 1905 to Sept. 1906 Resident at Copper Cliff, Ont., on construction of mine buildings, additional power plant, etc.; Sept. 1906 to May 1907 at Deschenes, Que., in charge of dredging head race and tail race, building substation; May 1907 to Jan. 1908 drafting and routine work in office; 1908 and 1909 on office work, reconnaissance survey, head waters of Malbale River, design and details and in charge of field work and construction of Westmount incinerator; Jan. to Oct. 1910 reconnaissance surveys and reports on water power and timber resources, Union Bay project, British Columbia, Rocky Rapids power project, Saskatchewan River above Edmonton, Alberta, office routine, drafting, etc.; Oct. 1910 to Jan. 1911 design of details, laying out and supervising construction of hydro-electric plant for Town of Farnham, Quebec; April to June 1911 preliminary surveys and plotting, Cedars Rapids Power; 1912 on surveys and reports on Abitibi River powers for Abitibi Co., and for Quinze River powers. *TT 9.6: SP 4.2: P 5.4: RC 5.4: D 0.4*. 1913 to 1914 with Henry Holgate, Montreal, on reconnaissance reports and surveys, new power site, Spanish River, design of dam and power house for Canadian Copper Co., and survey and report on power site on Ottawa River at Timiskaming. *TT 1.6: SP 0.3: P 1.3: RC 1.1: D 0.2*. March 1915 to June 1919 military service, Canada, England and France, until 1918 Major in command of Field Co., then Lt.-Col. in command of 11th Battalion, Canadian Engrs., B. E. F. *TT 4: P 4: RC 4*. 1919 with McPherson & Beam, Contrs., as Supt. of road contract, Revelstoke, B. C. *TT 0.2: P 0.2: RC 0.2*. 1920 to 1922 with Morrow & Beatty, Contrs., as Chf. Engr. on construction of power house and dam at Twin Falls, Abitibi River. *TT 2: P 2: RC 2*. 1922 to date in private practice with C. L. Cate, until 1926 associated with Henry Holgate, has made several surveys for and at present collaborator for Geo. F. Hardy of New York, in Quebec on construction of Ste. Anna Paper Co. and Anglo-Canadian Mills; 1926 built hydro-electric plant at Sherbrooke, for Paton Mfg. Co. *TT 5: P 5: RC 1: D 2. TT 22.4: SP 4.6: P 17.8: RC 17.8: D 2.6*. Refers to H. G. Acres, W. I. Bishop, A. C. D. Blanchard, J. B. Chailles, C. R. F. Coutlee, G. F. Hardy, H. Holgate.

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(4) **UHLER, EUGENE HENRY**, 1332 Montrose Ave., Bethlehem, Pa. (Age 42. Born Stockertown, Pa.) 1908 C. E., Lafayette Coll. *TT 2: SP 2*. 1908 to 1909 Instructor in mathematics and surveying, St. John's School, Manlius, N. Y. *TT 0.7: SP 0.7*. June to Sept. 1909 Instrumentman, Delaware, Lackawanna & Western R. R. *TT 0.3: SP 0.3*. 1909 to 1911 Asst. Prof. in Civ. Eng. Hefley Inst., Brooklyn, N. Y. *TT 1.7: P 1.7: RC 1.7*. 1911 to 1913 Draftsman, American Bridge Co., Pencoyd, Pa., detailing and checking structural steel. *TT 1.5: P 1.5*. 1913 to 1918 Designing Draftsman, 1½ years with Bridge & Bldg. Dept., Pennsylvania R. R., designing and checking bridges and buildings, then with Dept. of City Transit, Philadelphia, Pa., designing subway and elevated structures; also Asst. Prof., Drexel Inst., in charge of evening courses in Structural Eng. *TT 5.5: P 5.5: D 5.5*. 1908 to 1914 (6 months) Instructor in practical surveying, Lafayette Coll., Easton, Pa. 1918 to 1919 Designing Draftsman, Bethlehem (Pa.) Steel Bridge Corporation, estimating and designing structural steel. *TT 1: P 1: D 1*. 1919 to date Asst. Prof. of Civ. Eng., Lehigh Univ., Bethlehem, also Cons. and Designing Engr. for Borough of Nazareth, Brookside Recreation Club's Dam, Monroe County, Pa., and surveys, Penn Dixie Cement Corporation and Hercules Cement Corporation. *TT 7.5: P 7.5: RC 5.5. TT 20.2: SP 3: P 17.2: RC 7.2: D 6.5*. Refers to S. A. Becker, R. Farnham, R. J. Fogg, C. H. Mercer, H. G. Payrow, J. M. Porter, W. L. Wilson.

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(15) **UHRIG, LEO VERNON**, The Rice Inst., Houston, Tex. (Age 23. Born Carrollton, Mo.) 1925 B. S. in C. E., Univ. of Mo. *TT 2: SP 2*. June to July 1925 Inspector of materials, Missouri State Highway Comm. *TT 0.1: SP 0.1*. July 1925 to Sept. 1926 Drafts-

man, Div. of Eng., Dept. of Water Supply, Detroit, Mich. *TT 1.2: SP 1.2.* Sept. 1926 to date Instructor in surveying and municipal engineering, Rice Inst., Houston, Tex. *TT 0.6: P 0.6. TT 3.9: SP 3.3: P 0.6.* Refers to A. L. Hyde, E. J. McCaustland, H. K. Rubey, L. B. Ryon, Jr., F. H. Stephenson.

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(3) **WARNEY, VERNON EDWARD**, 86 Richland St., Rochester, N. Y. (Age 23. Born Rochester, N. Y.) 1926 B. S., Univ. of Mich. *TT 2: SP 2.* Feb. 1926 to date Jun. Structural Engr., Board of Education, Bldg. Dept., Rochester, N. Y., drafting and design of school buildings. *TT 1.2: P 1.2: RC 0.7: D 0.5. TT 3.2: SP 2: P 1.2: RC 0.7: D 0.5.* Refers to J. C. Bell, R. B. Jeffers, A. R. Reilly, H. E. Riggs, R. H. Sherlock, A. L. Vedder.

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(3) **WATSON-MacINNES, JOHN**, Horne Copper Corporation, Noranda, Rouyn, Quebec. (Age 22. Born Glasgow, Scotland.) 1924 received diploma in machine drawing and design, Bennett Coll., Sheffield. Aug. 1919 to Aug. 1922 Apprentice Patternmaker, Fairfield Shipbuilding & Eng. Co., Ltd., Govan, Glasgow, N. B. *TT 1.5: SP 1.5.* Feb. 1923 to May 1924 Machinist Improver, Cheltenham Works, Ltd., Mfrs. and Gen. Engrs., London, automobile work, electrical motors, etc. *TT 1.3: SP 1.3.* May 1924 to Oct. 1926 Jun. Draftsman, Colley Meikle & Co., Ltd., Engrs., London, heating, ventilating and general mechanical work. *TT 2.6: SP 2.6.* Dec. 1926 to date Draftsman, Horne Copper Corporation, Noranda, Rouyn Dist., Quebec, on construction. *TT 0.3: SP 0.3. TT 5.7: SP 5.7.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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(1) **WEATHERLOW, HUGH EDGAR**, 140 Cedar St., New York City. (Age 44. Born Arcade, N. Y.) 1907 C. E., Cornell Univ. *TT 2: SP 2.* 1906 to 1907 Timekeeper, Material Clerk, Asst. Supt. and Asst. Estimator, Marc Eidlitz & Son, New York City, on commercial buildings. *TT 1: SP 1.* 1907 to 1909 Supt. of Constr., Whitney-Steen Co., on a country residence, a store and office building in New York City, and private water supply and sewage disposal. *TT 1.6: P 1.6: RC 1.6.* 1909 to 1914 member of firm, Weatherlow & Korn, office and field supervision of residences, small church, bank, and apartment house. *TT 4: P 4: RC 4.* 1914 to 1917 Gen. Supt., Geo. Sykes Co., on Villa Vizeaya for James Dearing at Miami, Fla., dredging, pile driving, concrete work, water system, lighting plant, landscaping, interiors, quarrying, stone cutting and carving (\$5 000 000), and other construction. *TT 3: P 3: RC 3.* 1917 to date with Raymond Concrete Pile Co., as Supt. of Constr. of reinforced concrete shipways, docks and piers at Chester, Bristol and Hog Island, Pa., at present Office Mgr. of construction. *TT 10: P 10: RC 10. TT 21.6: SP 3: P 18.6: RC 18.6.* Refers to F. A. Barnes, N. Cummings, C. R. Gow, H. P. Hamlin, F. W. Johnson, G. P. Morrill, O. A. Sandquist.

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(1) **WHITNEY, JOSEPH HERBERT**, 433 East Thirty-Second St., Paterson, N. J. (Age 32. Born Macclesfield, Cheshire, England.) June 1911 to Dec. 1920 Structural Draftsman, successively with Passaic Structural Steel Co., Heddon Iron Constr. Co., American International Shipbuilding Corporation, and Eidlitz & Ross, on steel framing for mill and office buildings, bridges and ships. *TT 9.6: SP 9.6.* Dec. 1920 to date Asst. Engr. with McKenzie, Voorhees & Gmelin and Voorhees, Gmelin & Walker, on design of steel and concrete framing for office buildings, cost estimating and investigations. *TT 6.2: P 6.2: RC 2: D 6.2. TT 15.8: SP 9.6: P 6.2: RC 2: D 6.2.* Refers to R. A. Backus, R. L. Bertin, G. E. Doyen, F. Jordan, G. J. Seebach, S. F. Voorhees, J. B. Wright.

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(3) **WIPFLER, MICHAEL WILLIAM**, 374 West Gray St., Elmira, N. Y. (Age 44. Born Manitowoc, Wis.) Licensed Prof. Engr. and Land Surveyor, New York State. 1901 to 1902 with J. E. Rawlins as Apprentice Draftsman, Field Chainman, Instrumentman, etc., and finally Constr. Layout Engr. on erection of a rolling mill at Elmira Heights, N. Y. *TT 1: SP 1.* 1902 to date in City Engr.'s office, Elmira, until 1916 as Draftsman, designed sewers and pavements and acted as Engr. in charge of pavement construction, being responsible for field and drafting room work, then (one year) Acting City Engr. in full charge of all design, construction, contracts, specifications, estimates, etc., sewers, pavements, retaining walls, reinforced concrete structures, made all tests of materials, etc., from 1916 to 1926 Chf. Draftsman, acting as Asst. City Engr. and Office Engr., in responsible charge of design and field layout, testing materials, etc., being practically in charge of Dept., and since 1916 Acting City Engr. in responsible charge of Dept., including all municipal engineering problems, specifications, contracts, etc., also making all designs. 1912 to 1927 (spare time) also in private practice of engineering and surveying, in responsible charge of many important court and industrial engagements, building layouts, coal surveys, land boundary disputes, etc.

TT 25.6: SP 5: P 20.6: RC 15.6: D 15.6. TT 26.6: SP 6: P 20.6: RC 15.6: D 15.6.
 Refers to H. Bartholomew, B. S. Bascome, E. E. Buchanan, J. Greer, R. T. Lewis, H. W. Preston, R. H. Sartor.

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(1) **WU, KING CHING**, City and Guilds (Eng.) Coll., South Kensington, London, England. (Age 25. Born Shanghai, China.) 1924 B. Sc. in Eng., Univ. of Hongkong. *TT 2: SP 2.* 1925 to date graduate student, City and Guilds (Eng.) Coll., London Univ.; July 1926 received diploma of Imperial Coll. of Science and Technology. *TT 1.5: P 1.5. TT 3.5: SP 2: P 1.5.* Refers to R. Freeman, G. H. Lundgren.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

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(12) **CARTER, GEORGE NEAL**, Assoc. M., Capitol Bldg., Boise, Idaho. (Elected July 6, 1920.) (Age 39. Born Genoa, Nebr.) 1905-1907 and 1911-1913 student, Univ. of Nebraska. *TT 1.3: SP 1.3.* Sept. 1908 to Sept. 1911 with Faris Eng. & Contr. Co., Boise, Idaho, as Field Draftsman, Levelman, Transitman and Designer on irrigation projects in Idaho. *TT 3: SP 1.5: P 1.5: RC 1: D 0.5.* Sept. 1914 to Jan. 1917 Instrumentman, Designer and Chf. of Party, U. S. Bureau of Reclamation, on surveys, design and construction of irrigation projects, Jackson Lake Dam, Wyo., and Arro Rock Dam, Idaho. *TT 2.4: P 2.4: RC 2: D 1.* Jan. 1917 to Jan. 1918 Asst. to Gen. Mgr., Twin Falls Canal Co., on operation of large irrigation project. *TT 1: P 1: RC 1.* Jan. 1918 to Jan. 1921 Asst. Engr. and Chf. Hydrographer, Twin Falls North Side Land & Water Co., on design, construction and hydrographic survey of irrigation project. *TT 3: P 3: RC 2: D 1.* Jan. 1921 to date Carey Act Engr., Director of Water Resources and Commr. of Reclamation, State of Idaho. *TT 6.2: P 6.2: RC 6.2. TT 17: SP 2.8: P 14.2: RC 12.2: D 2.5.* Refers to G. C. Baldwin, L. Crandall, E. B. Darlington, E. G. Hopson, C. G. Paulsen, R. K. Tiffany.

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(5) **DAVENPORT, ROYAL WILLIAM**, Assoc. M., Federal Power Comm., Washington, D. C. (Elected Junior Oct. 4, 1910; Assoc. M. April 7, 1915.) (Age 41. Born Colrain, Mass.) 1908 B. S. in C. E., Worcester Pol. Inst. *TT 2: SP 2.* July 1908 to June 1910 Instructor in Civ. Eng., Worcester Polytechnic Inst. *TT 2: P 2.* July 1910-June 1913 Jun. Engr., July 1913-July 1918 Asst. Engr., and Aug. 1918 to date Hydr. Engr., U. S. Geological Survey, engaged as follows: July 1910-Feb. 1914 on hydraulic, water-supply and water-power investigations in Oregon, Washington, Idaho and Alaska; and (winters, 1913-1914) in Washington, D. C., preparing reports of investigations; March-Oct. 1914 in Dist. No. 3, Sevier River Investigation, Utah, installing hydrometric equipment, also acted as Water Commr. on Lower Sevier River; Nov. 1914-Sept. 1920 in Land Classification Branch, Washington, D. C., preparing reports on water supply and other engineering features of power and irrigation projects on public lands, planning and directing work relating to action on applications to develop power on public lands, administration of power site reserves, etc.; since Oct. 1920 with Federal Power Comm., at Washington, D. C., engineering work and occasional field inspection trips relating to administration of Federal Water Power Act, including technical studies, investigations, reports and recommendations for guidance of administrative officers. *TT 16.7: P 16.7: RC 15.7: D 8. TT 20.7: SP 2: P 18.7: RC 15.7: D 8.* Refers to C. D. Avery, G. E. Edgerton, N. C. Grover, J. C. Hoyt, O. C. Merrill, H. Stabler.

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(4) **DRAPER, LOTT DAVIS**, Assoc. M., 28 East Tulpehocken St., Germantown, Philadelphia, Pa. (Elected May 15, 1917.) (Age 47. Born near Milford, Del.) July 1895 to Sept. 1899 Draftsman, Edge Moor Bridge Works, on detail drawings for bridges and buildings. *TT 4.1: SP 3: P 1.1.* Sept. 1899 to June 1906 Draftsman, New York Shipbuilding Co., 5 years on detail drawings for buildings and plant equipment and improvements, and 1 4/5 years checking ship drawings. *TT 6.8: SP 2: P 4.8: RC 1.8: D 2.* June 1906 to Jan. 1926 (except Aug. 1918 to Aug. 1919) with American Bridge Co., Pencoyd Plant, 2 years as Checker on detail drawings, remainder of time Structural Engr. in charge of structural detailing, and after June 1923 Asst. Engr. *TT 18.6: P 18.6: RC 16.4: D 12.4.* Jan. 1926 to date with McClintic-Marshall Constr. Co., as Engr. in charge of drawing room, Philadelphia. *TT 1.2: P 1.2: RC 1.2: D 1.2. TT 30.7: SP 5: P 25.7: RC 19.4: D 15.6.* Refers to F. W. Abbott, F. L. Castleman, H. T. Campion, W. G. Grove, W. I. Lex, P. M. Sax, E. E. Seyfert.

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(13) JONES, ROBERT LEROY, Assoc. M., 2403 E St., Sacramento, Cal. (Elected May 15, 1917.) (Age 39. Born Laramie, Wyo.) Student, Univ. of Denver (Sept. 1906 to June 1907) and Coll. of Civ. Eng., Univ. of California (Aug. 1910 to July 1912). *TT 1: SP 1.* June 1907 to Aug. 1910 with R. M. Jones, Cons. Engr., Denver, Colo., on hydro-electric projects, as Draftsman, Recorder, Instrumentman, Computer, Estimator and Gen. Asst. *TT 3.2: SP 2: P 1.2.* May 1911 to Jan. 1913 Draftsman, Designer and Inspector on heating and ventilation work, Univ. of California (3 months); in charge of location survey for small hydro-electric plant in Tahiti under Pelton Water Wheel Co. (1½ months), stream measurements in Tehama County, Cal., for C. L. Cory (1 month); Transitman and Draftsman on reclamation work and property surveys for Phinney, Cate & Marshall, Sacramento, Cal. (4½ months). *TT 0.8: SP 0.4: P 0.4: RC 0.4.* Jan. 1913 to Dec. 1917 with Sutter Basin Co., and Reclamation Dist. No. 1500 on Sutter Basin Project, California, reclaiming 66 500 acres from flood; had complete charge of engineering office as Prin. Asst. (under Chf. Engr.), having direct supervision of all details of engineering work, including direction of surveys and drafting, hydraulic calculations, location of levees, design of drainage system of 200 miles of canals (except detail design of pumping plant), design of irrigation system and structures (bridges, retaining walls, culverts, buildings), estimates, reports, plans, etc., and assisted in direction of construction. *TT 4.9: P 4.9: RC 4: D 3.* Dec. 1917 to Oct. 1921 with Sutter Basin Co. as Chf. Engr. on land development project (64 000 acres); in charge of engineering and construction of improvements (\$2 750 000), consisting of roads, bridges, warehouses, buildings, drainage works and irrigation system for 50 000 acres (\$2 250 000) with about 275 miles of canals, structures and three electric pumping plants (2 250 h.p.); had charge of preliminary investigations, design and construction and operation; also directed engineering in connection with administration, subdivision, developing and farming land. *TT 3.8: P 3.8: RC 3.8: D 3.8.* Oct. 1921 to June 1923 Associate Hydr. Engr., California State Dept. of Public Works, Div. of Eng. and Irrigation, being Chf. Asst. on investigation of water resources of California, also Div. Office Engr. *TT 1.7: P 1.7: RC 1.7.* June 1923 to date with California State Reclamation Board, until Sept. 1923 in charge of special investigation and survey covering financial and agricultural conditions on 480 000 acres, and since then Asst. Engr. in charge of field and office engineering and project construction and maintenance (\$990 000), consisting of levees, drains, bridges, pumping plants, structures and repairs on all projects of Sacramento and San Joaquin Drainage Dist., etc. *TT 3.9: P 3.9: RC 3.9: D 3.6. TT 19.3: SP 3.4: P 15.9: RC 13.8: D 10.4.* Refers to P. Bailey, E. N. Bryan, D. Butler, B. A. Etcheverry, E. Hyatt, Jr., G. N. Randle, A. J. Wagner.

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(1) MAWSON, GEORGE THOMAS, Assoc. M., Marne P. O., South Salsette, Bombay, India. (Elected June 30, 1911.) (Age 47. Born Cockermouth, England.) 1897 to 1900 Articled Pupil to Geo. Watson & Sons, Archts. and Surveyors, Penrith, England on design, construction, etc. *TT 2.1: SP 2.1: D 1.1.* Aug. 1900 to Jan. 1902 Personal Asst. to Under Secy. to Govt. Public Works Dept., Bombay, Kathiawar, India, on design and construction of large dams, canals, aqueducts, irrigation schemes, etc. *TT 1.3: SP 0.5: P 0.8: RC 0.5: D 0.5.* Jan. 1902 to Dec. 1903 with C. F. Stevens, Archt., Bombay, in charge of drawing office and works, valuation, etc., King, King & Co. (Bankers & Agts.) new building, Chartered Bank of India, Australia and China, Wheelers Bldg., church at Byculla, Bombay, etc. *TT 1: P 1: RC 1: D 1.* Dec. 1903 to Oct. 1919 with Marsland, Price & Co., until Oct. 1912 as Chf. Asst. Engr. and Archt., first in branch office, Poona, designed and carried out reinforced concrete work, including police lines, central jail with drainage and water supply schemes, new barracks for European troops at Kirkee, quarters for superior staff, new Gun Park at Arsenal; after July 1906 at head office, Bombay, in general charge of drawing office, mechanical and civil branches of outdoor work, including new Central Lunatic Asylum with water supply and drainage scheme; reinforced concrete natural draught cooling tower, reinforced concrete floors for new General Post Office, Bombay, workmen's dwellings, loom sheds and other mill buildings, Standard Oil Co. of New York's bulk oil installation and new power house, Kussara; Oct. 1912 to Sept. 1919 Gen. Mgr. and (later) Chf. Engr. on work for the government, including over bridges and galleries at Alexander Docks, Bombay, etc. *TT 15.7: P 15.7: RC 15.7: D 15.7.* Oct. 1919 to date Governing Director of firm, Mawson-Vernon Co., Ltd., work included Mahim Dye Works extensions, including new boiler house and electrolyzer plant; hot water installation for Government at Government House, Mahabeshwar, Exchange Building, Ballard Estate, Bombay (entirely on piles), remodeling and ventilating Times of India Press Bldg. Meyer Sassoon Mill extension and drainage, remodeling an office building, foundations at Jacob Sassoon Cotton Mill, extensions to Bombay factory, Lightfoot Refrigeration Co., Ltd., special spillway for govern-

TT 25.6: SP 5: P 20.6: RC 15.6: D 15.6. TT 26.6: SP 6: P 20.6: RC 15.6: D 15.6.
 Refers to H. Bartholomew, B. S. Bascome, E. E. Buchanan, J. Greer, R. T. Lewis, H. W. Preston, R. H. Sartor.

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 Refers to R. Freeman, G. H. Lundgren.

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ment design, etc., water tanks for government, etc. *TT 7.7: P 7.7: RC 7.7: D 7.7. TT 27.8: SP 2.6: P 25.2: RC 24.9: D 26.* Refers to W. H. Neilson, I. Oesterblom. (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

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(10) **MILLER, HARRY EDGAR**, Assoc. M., 1610 St. Marys St., Raleigh, N. C. (Elected June 19, 1922.) (Age 33. Born Osborne, Mo.) 1916 C. E., Univ. of Mich. *TT 2: SP 2.* June 1916 to March 1918 Asst. Engr. with City Engr., Flint, Mich., in charge of surveys, sewer design and construction. *TT 1.7: P 1.7: RC 1.2: D 0.7.* March to Sept. 1918 Asst. Engr., Ohio State Dept. of Health, on investigation of proposed sewerage and sewage-treatment improvements; assisted in the division of public water-supply control. *TT 0.4: P 0.4: RC 0.4.* Sept. 1918 to May 1919 1st Lieut., Q. M. C., Constr. Div., U. S. Army, at Camps Sherman and Eustis, on drainage work and as Executive Officer of Utilities Div. in charge of water supply and sewerage. *TT 0.7: P 0.7: RC 0.7.* May 1919 to date with North Carolina State Board of Health; organized, and acted as Director and Chf. Engr., of Bureau of San. Eng. and Inspection, consisting of Water Supply, Sewerage and Stream Studies, Milk and Shell Fish Sanitation and San. Inspection Divs.; Department has general sanitary supervision of all state institutions, including engineering advice and estimates of cost of sanitary improvements and is responsible for decisions of Board of Health on plans, etc., pertaining to water-supply and sewerage problems. *TT 8: P 8: RC 8. TT 12.3: SP 2: P 10.8: RC 10.3: D 0.7.* Refers to G. M. Braune, W. H. Dittoe, W. C. Hoad, J. L. Ludlow, C. A. Mees, W. C. Olsen, W. M. Platt, E. C. Shoecraft, C. E. Waddell, G. C. White.

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(10) **MOORE, PAUL ROSS**, Assoc. M., City Hall, Ft. Pierce, Fla. (Elected Jan. 18, 1926.) (Age 40. Born Lancaster, S. C.) Registered Civ. Engr., State of North Carolina. 1908 B. S., Univ. of S. C. *TT 2: SP 2.* 1908 to 1911 County Engr., Lancaster County, S. C., on surveys, road construction, bridge design and construction. *TT 3: SP 1: P 2: RC 2: D 0.5.* 1911 to 1912 Superv. Engr., C. W. Requarth Co., Charlotte, N. C., on Catawba River Bridge and others. *TT 1: P 1: RC 0.5: D 0.5.* 1912 to 1914 Res. Engr., Kershaw (S. C.) Cotton Mills, in charge of erection (\$300 000). *TT 2: P 2: RC 2.* 1914 to 1917 with H. S. Jaudon Eng. Co. of Savannah and Elberton, Ga., as Res. Engr. and Supt. of Constr. of water-works, sewers, bridges, and pavements (\$1 500 000). *TT 3: P 3: RC 3: D 1.5.* 1917 to 1919 1st Lieut., F. A., U. S. Army, 1 year with A. E. F., 6 months in Germany. *TT 2: P 2: RC 2.* 1919 to 1921 Res. Engr. with Gilbert C. White, Durham, N. C., on sewers, paving and bridges (\$2 000 000). *TT 2: P 2: RC 2: D 1.* 1921 to 1922 with W. C. Olsen, Raleigh, N. C., on power plant, sewer, water and paving. *TT 1: P 1: RC 1: D 0.5.* 1922 to 1924 Pres. and Treas., Moore & McCrady, Contr. Engrs., built Lynches River Bridge and \$250 000 pavement. *TT 2: P 2: RC 2: D 0.5.* 1924 to 1925 Cons. Engr., dams, reservoirs, bridges and buildings. *TT 1: P 1: RC 1: D 0.5.* 1925 to date City Engr., Ft. Pierce, Fla., in charge of all paving, storm and sanitary sewers, water mains, surveying, assessing (cost to date \$1 600 000). *TT 2.2: P 2.2: RC 2.2. TT 21.2: SP 3: P 18.2: RC 17.7: D 5.2.* Refers to H. S. Jaudon, F. P. Larmon, D. Lowensohn, G. P. Morrill, R. E. Snowden, G. C. White.

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(8) **ROSNER, MAX**, Assoc. M., 64 West Randolph St., Chicago, Ill. (Elected March 15, 1926.) (Age 41. Born Adjud, Roumania.) 1909 B. S., Cooper Union. 1914 C. E., Brooklyn Pol. Inst. *TT 2: SP 2.* 1912 to 1914 Structural Steel Detailer and Checker with Levering & Garrigues, New York City, on hotels, power houses, etc. *TT 2: SP 1: P 1.* 1914 to 1915 Structural Steel Designer and Detailer with Snare & Triest, New York City, on sugar refineries, and elevator stations on Long Island Elevated Lines. *TT 1: P 1.* 1915 to Aug. 1918 Structural Designer, until March 1918 with Elec. Bond & Share Co., New York City, on steel, concrete, power-house, yard structures, transmission lines and towers, substations, then with Sinclair Refining Co., Chicago, Ill., on steel concrete oil stations. *TT 3.5: SP 1: P 2.5: D 2.* Aug. 1918 to Jan. 1919 Checker of structural steel structures, New England Steel Co., Everett, Mass. *TT 0.4: P 0.4.* Jan. 1919 to March 1920 Structural Designer and Chf. Draftsman, with Helbach & Winters, Chicago, on theatres, industrial buildings, etc. *TT 1.2: P 1.2: RC 1.* 1920 to 1921 Structural Designer, The Foundation Co., Chicago; designed two 30 000-kw. additions to Kansas City Power & Light Co., turbine room, switch room, sub- and super-structure. *TT 1: P 1: D 1.* 1921 to Nov. 1926 with Fridstein & Co., Chicago, as Structural Engr. and Chf. Engr. on theatres and hotels; had charge of Structural Dept. and designed Webster, Belden, Shoreland Hotels and Harding, Tower and Congress Theatres, all in Chicago. *TT 5: P 5: RC 4.7: D 4.7.* Nov. 1926 to date in private practice as Cons. and Structural Engr.; designed four theatres, four apartment hotels, bank building, garage and three commercial buildings. *TT 0.4: P 0.4: RC 0.4: D 0.4. TT 16.5: SP 4: P 12.5: RC 6.1: D 8.1.* Refers to F. W. Adgate, A. A. Cother, F. W. Dencer, M. Fridstein, J. H. Heald, L. J. Hotchkiss.

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(11) **SCHILLING, FRANK ADAM**, Assoc. M., 636 North Harvard Boulevard, Los Angeles, Cal. (Elected Nov. 21, 1921.) (Age 42. Born Schererville, Ind.) Took course in architecture, International Correspondence School, 2 years student in engineering (extension course), Univ. of Wisconsin. July to Nov. 1906 Draftsman, Estimator, etc., Res. Engr.'s office, Atchison, Topeka & Santa Fe Ry., San Bernardino, Cal. *TT 0.3: P 0.3.* Nov. 1906 to April 1910 Asst. Foreman, Timekeeper, B. and B. Clerk, Acting Chf. Clerk to Res. Engr., Div. Accountant, M. of W. and S., Southern Pacific R. R. Co., Tucson, Ariz. *TT 3.5: SP 3.5.* April 1910 to Aug. 1911 Clerk to Res. Engr., El Paso & Southwestern R. R., Tucumcari, N. Mex. *TT 1.3: SP 1.3.* Aug. 1911 to April 1912 and Sept. 1913 to June 1914 with S. E. Gregory, Contr., Tucson, estimating, drafting, etc. *TT 1.4: SP 1.4.* June 1914 to June 1917 Statistician and Valuation Engr., Chf. Engr.'s and Auditor's Office, Salt Lake Ry., on Federal valuation. *TT 3: SP 1.5: P 1.5.* June to Dec. 1917 with Pacific Elec. Ry., A. T. & S. F. Ry., and R. J. Arnold Co., as Supt. of Constr., Draftsman, valuation, etc. *TT 0.4: P 0.4: D 0.2.* Dec. 1917 to Jan. 1920 Engr. and Draftsman, Union Oil Co., on design of structures, conveyors, pipe and pump layouts, sales stations, etc. *TT 2.1: P 2.1: D 2.1.* June 1920 to Feb. 1921 with Walker & Elsen, Archts., as Engr. and Supt. of Constr. in charge of engineering and superintending construction. *TT 0.7: P 0.7: RC 0.7: D 0.7.* Jan. to June 1920 and Feb. 1921 to April 1922 Engr. and Estimator, Darrell Conley Co., Constr. Engrs., in charge of engineering and estimating buildings and structures (masonry, frame and concrete). *TT 1.4: P 1.4: RC 1.4.* April 1922 to date Gen. Contr. on erection of buildings, etc. *TT 5: P 5: RC 5. TT 19.3: SP 7.8: P 11.5: RC 7.2: D 3.1.* Refers to R. J. Arey, M. Dozier, Jr., E. A. Evans, J. C. Hain, S. A. Jubbs, R. V. Leeson, J. O. Marsh, B. Noice, R. J. Reed.

FROM THE GRADE OF AFFILIATE

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(13) **MORRIS, EDWARD**, Affiliate, Willits, Cal. (Elected Aug. 31, 1925.) (Age 41. Born Kansas City, Mo.) 1910 to 1912 in private practice, at Santa Maria, Cal. 1912 to 1913 Engr. and Gen. Mgr., San Jacinto (Cal.) Water and Land Co., built Fruitvale Irrigation System. *TT 2: P 2: RC 2: D 2.* 1914 to 1922 in private practice, also Associate Engr., Tejuca Creek Investigation (1915 to 1916) acted as Cons. Engr., La Canada Water Co., Los Angeles (1916 to 1917) and Beaumont (Cal.) Water Co. (1918 to 1919) and as City Advisory Engr. at Willits (1919 to 1922). *TT 8: P 8: RC 8: D 8.* 1922 to date with Central Mendocino County Power Co., as Chf. Engr. supervising construction of 15 miles of 22 000-volt transmission lines, 8 miles of distribution system; also 22 700 ft. of 14-in. pipe line connecting thin arch dam and reservoir with Town of Willits, and designed and supervised all trestle structures and surge reservoir work; also (1923-1924) acted as Res. Engr. in active charge of construction for thin arch dam on James Creek (40 ft. high, 107 ft. long); 1926 (7 months) designed and laid out Requa Highlands (a subdivision), at Piedmont, Cal., inclusive of special street lighting facilities. *TT 5: P 5: RC 5: D 5. TT 15: P 15: RC 15: D 15.* Refers to T. A. Bedford, J. E. Bowersmith, C. E. Grunsky, E. L. Grunsky, H. C. Means, H. A. Noble, W. S. Post.

FROM THE GRADE OF JUNIOR

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(15) **CONE, GEORGE HUBERT**, Jun., 1141 West Huisache St., San Antonio, Tex. (Elected Oct. 2, 1922.) (Age 30. Born Muscatine, Iowa.) March to June 1916 and Jan. to March 1917 Draftsman and Office Clerk in City Engr.'s office, Muscatine, Iowa. *TT 0.4: SP 0.4.* June 1916 to Jan. 1917 with Iowa State Militia on Mexican Border. March 1917 to July 1918 Draftsman, Instrumentman and Gen. Asst. San Engr., City Engr.'s office, Dallas, Tex. San. Sewer Dept. *TT 1.3: SP 0.6: P 0.7: RC 0.3.* July 1918 to Feb. 1919 with U. S. Army. March to Sept. 1919 Asst. Engr., laying out pavement, grading, sewers, etc., City Engr.'s office Davenport, Iowa. *TT 0.5: P 0.5: RC 0.2.* Sept. to Dec. 1919 Draftsman on highway work, plans for 54 miles of state highway, Limestone County, Tex. *TT 0.2: P 0.2.* Dec. 1919 to July 1920 with Fred A. Jones, Dallas, as Topographical Draftsman on interurban location surveys, and Asst. Engr. in office. *TT 0.6: P 0.6.* July to Oct. 1920 Draftsman, Sun Oil Co., Dallas. *TT 0.2: P 0.2.* Oct. 1920 to May 1921 with United Irrigation Co., Mission, Tex., in charge of 16 000-acre topographical survey, including plotting and some canal layouts. *TT 0.6: P 0.6: RC 0.6.* Sept. 1921 to Jan. 1922 Asst. Engr. with Black & Veatch, Kansas City, Mo., on paving, water-works and sewers. *TT 0.3: P 0.3: RC 0.2.* Jan. to Aug. 1922 with John B. Hawley, Ft. Worth, Tex., detailing and drafting on several large hydraulic projects, including Paris (Tex.) water supply system (\$1 000 000). *TT 0.7: P 0.7.* Aug.

1922 to date with McKenzie Constr. Co., San Antonio, Tex., estimating and office engineering plant and work, layout etc., on a sewage-disposal plant (\$750 000), Olmos Dam, San Antonio (\$1 500 000), several sewer jobs, big buildings, etc. *TT 4.7: P 4.7: RC 2. TT 9.6: SP 1: P 8.6: RC 3.3.* Refers to A. R. Alling, S. W. Freese, J. B. Hawley, F. A. Jones, A. J. McKenzie, C. F. Parker W. E. Simpson.

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(1) **CONKLING, FRANK ELLSWORTH, Jr., Jun.,** Cayo-Mambi, Oriente, Cuba. (Elected Jan. 14, 1924.) (Age 28. Born Patchogue, N. Y.) 1922 C. E., and 1923 M. C. E., Cornell Univ. *TT 2: SP 2.* July-Sept. 1922 Instrumentman and Draftsman with Hopkins & Field, Rochester, N. Y. *TT 0.2: SP 0.2.* Sept. 1922 to June 1923 graduate student, Cornell Univ. *TT 0.7: P 0.7.* July 1923 to date with Atlantic Fruit Co., until April 1925 as Asst. Civ. Engr., acting as Draftsman and on transit work, surveys, etc., from May 1925 to June 1926 First Asst. Civ. Engr., on railroad location, establishment of small triangulation system, design and construction of abutments for 100-ft. span bridge, including small coffer dam, and since July 1926 Chf. Civ. Engr. on design and supervision of construction of a reinforced concrete culvert, directly in charge of civil engineering work on the sugar plantation. *TT 3.7: SP 1: P 2.7: RC 1. TT 6.7: SP 3.2: P 3.5: RC 1.* Refers to F. A. Barnes, H. J. Dignum, C. C. Hopkins, G. E. Lund, J. E. Perry.

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(1) **DEVAUL, WILLARD ROGERS,** Jun., 7 Osceola Drive, Greenwich, Conn. (Elected May 19, 1924.) (Age 28. Born Pitman, N. J.) 1921 B. Sc., Rutgers Univ. *TT 2: SP 2.* July 1921 to March 1924 Jun. Engr. to Asst. Civ. Engr., New Jersey State Highway Dept., on surveys, design and construction of concrete highways, etc., surveys and supervision of construction of highway bridges (spans 20 to 100 ft.). *TT 2.7: SP 0.5: P 2.2: RC 1: D 1.2.* March 1924 to date Highway Engr., S. E. Minor & Co., on topographical surveys for reservoirs, damsites and subdivisions; surveys, design and construction of concrete and asphalt roads, bridges, dams and reinforced swimming pools, sanitary sewers and storm-water drain systems, and Water Company pipe lines. *TT 3: P 3: D 3. TT 7.7: SP 2.5: P 5.2: RC 1: D 4.2.* Refers to L. E. Andrews, P. J. Gray, S. E. Minor, E. H. Rockwell, S. A. Stephenson, Jr., F. W. Tooker.

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(13) **DOOLAN, JEROME KASEBERG,** Jun., 2170 Hayes St., San Francisco, Cal. (Elected Oct. 11, 1920.) (Age 29. Born San Francisco, Cal.) 1920 A. B., and 1921 C. E., Leland Stanford, Jr., Univ. *TT 2: SP 2.* March to Dec. 1920 field study of water supply and sanitary engineering works in eastern cities of United States. *TT 0.7: B 0.7.* Jan. to Sept. 1921 post-graduate student in Civ. Eng. Leland Stanford, Jr., Univ. *TT 0.7: P 0.7.* Oct. 1921 to March 1923 Asst. Engr. with A. J. Cleary, Cons. Engr., San Francisco, Cal., on water-supply, irrigation and power projects. *TT 1.5: P 1.5: D 1.* April to July 1923 Asst. San Engr., State Board of Health, Bureau of San. Eng., Berkeley, Cal., on water-supply, sewage-disposal and sewer systems. *TT 0.3: P 0.3: D 0.3.* July 1923 to March 1925 Engr., Burns & McDonnell Eng. Co., Los Angeles, Cal., and Kansas City, Mo., on water-supply, sewage-disposal and sewer systems being Res. Engr. on Pasadena (Cal.) sewage disposal, Williams (Ariz.) dam and water-works improvement, Glendale (Cal.) outfall sewer, etc. *TT 1.9: P 1.9: RC 1.9: D 1.5.* March to Sept. 1925 contracting. *TT 0.5: P 0.5: RC 0.5.* Sept. 1925 to Feb. 1927 Constr. Engr. at Providence Hospital, Oakland, Cal., hospital, service building and nurses' home (\$1 500 000). *TT 1.4: P 1.4: RC 1.4: D 1.4. TT 9: SP 2: P 7: RC 3.8: D 4.2.* Refers to C. G. Gillespie, R. E. McDonnell, C. D. Marx, C. A. Smith, C. B. Wing.

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(14) **HUDSON, FRANKLIN, Jr., Jun.,** 3741 Bell St., Kansas City, Mo. (Elected Oct. 2, 1922.) (Age 26. Born Kansas City, Mo.) Aug. 1918 to May 1919 Chairman and Draftsman, and April to May 1922 Rodman and Instrumentman, Santa Fe R. R. *TT 0.9: SP 0.9.* May 1919 to Nov. 1920 Asst. Res. Engr. with Johnson & Benham, Cons. Engrs., Kansas City, Mo., on sewerage system, Globe, Ariz., and water-works and sewers, Ada, Okla. *TT 1.6: SP 1.6.* Nov. 1920 to June 1921 Res. Engr., United Light & Power Co., Abilene, Kans., on hydro-electric project, Superior, Nebr. *TT 0.5: SP 0.5.* June 1921 to April 1922 Jun. Asst. Engr. with Benham & Mullergren, Cons. Engrs., Kansas City, Mo., on plans, estimates and surveys for municipal improvements. *TT 0.8: SP 0.6: P 0.2: D 0.2.* July to Sept. 1923 Draftsman, Kansas City Southern R. R., Chf. Engr.'s office, assisted on reports on line-change economics. *TT 0.2: P 0.2.* May 1922 to date (except July to Sept. 1923) with Benham Eng. Co., Cons. Engrs., Kansas City, Mo., as follows: May 1922 to July 1923 Res. Engr., on asphalt paving, Downs, Kans., and Purcell, Okla.; Sept. 1923 to Jan. 1924 Asst. Engr. on surveys, design and estimates for paving at Tahlequah and Olton, Okla., and sewage-disposal plant, sewers and paving at Stroud, Okla.; Jan. 1924 to March 1925 Res. Engr. on paving and

sewers (\$70 000), Oilton, sewage-disposal plant, sewers, paving and waterworks (\$200 000), Stroud; March 1925 to Jan. 1927 Office Engr. on design, estimates and surveys for water supply, sewerage, paving, gas systems, etc., for various cities in Oklahoma, and main line and distribution systems for Texas Gas Co.; since Jan. 1927 Secy.-Treas., also Office Engr. on design, estimates and surveys for municipal improvements. *TT 4.7: P 4.7: RC 4.7: D 3.3. TT 8.7: SP 3.6: P 5.1: RC 4.7: D 3.5.* Refers to O. P. Allee, W. L. Benham, G. Blaauw, C. M. Buck, H. L. Dunham, C. A. Howland, H. M. Nabstedt, H. W. Nighswonger, F. A. Russell.

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(14) **KHAN, ABOL FAZL**, Jun., 623 Ohio St., Jefferson City, Mo. (Elected Aug. 28, 1922.) (Age 31. Born Hamadan, Persia.) 1921 B. S., Iowa State Coll. *TT 2: SP 2.* Summers 1917 and 1918 Steel Tester, Illinois Steel Co., Gary, Ind. Summer 1919 Instrumentman, Chicago North Western Ry. Co. June 1921 to Jan. 1923 with Iowa State Highway Comm., successively as Rodman, Instrumentman, and Draftsman. *TT 1.6: SP 0.9: P 0.7: RC 0.7.* Jan. to March 1923 Draftsman, and March 1923 to date Bridge Designer, Missouri State Highway Dept., Jefferson City, Mo. *TT 4.3: SP 0.2: P 4.1: D 4.1. TT 7.9: SP 3.1: P 4.8: RC 0.7: D 4.1.* Refers to R. C. Barnett, C. W. Brown, A. H. Fuller, A. Marston, B. H. Plepmeier

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(4) **McWILLIAMS, JOHN SCOTT**, Jun., Box 17, Shamokin, Pa. (Elected March 12, 1923.) (Age 31. Born Shamokin, Pa.) 1922 A. B., Princeton Univ., and B. S., Mass. Inst. Tech. *TT 2: SP 2.* Sept. 1922 to date Mgr., Bear Gap Water Co., Shamokin, Pa., in charge of pumping plant, reservoirs and distribution system, acted as Eng. Inspector, on building of 600 000 000-gal. storage reservoir and new pumping plant; since Sept. 1922 also Pres., Roaring Creek Water Co. in charge of operation and general supervision, acted as Advisor on design and erection of two 2 500 000-gal. concrete tanks and storage reservoir (1 400 000 000 gal.), in charge of planning and construction of all extensions made to transmission and distribution systems. *TT 4.6: P 4.6: RC 4.6. TT 6.6: SP 2: P 4.6: RC 4.6.* Refers to C. R. Berry, F. H. Dechant, N. B. Jacobs, T. E. Seelye, C. M. Spofford.

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(5) **PARKER, GEORGE MASON**, Jun., 1346 Magnolia Ave., Norfolk, Va. (Elected Feb. 25, 1924.) (Age 31. Born Woodland, N. C.) 1919 B. E., N. C. State Coll. of Agri. and Eng. *TT 2: SP 2.* Sept. 1911 to Aug. 1915 Rodman and Chairman with his father, J. D. Parker, on topographical surveying, subdivision, etc. *TT 4: SP 4.* Aug. to Dec. 1919 Surveyman, War Dept., U. S. Engr. Office, Norfolk, Va., acting as Instrumentman on river and harbor surveys. *TT 0.4: SP 0.4.* 1920 in private practice at Woodland, N. C., topographic surveys. *TT 1: P 1: RC 1.* Jan. 1921 to date with War Dept., U. S. Engr. Office, Norfolk, 3 years as Surveyman, acting as Instrumentman (Jan. to April 1921) directing survey work and operations of two U. S. dredges (May to Nov. 1921) and contract dredging operations on Onancock River, Va. (Dec. 1921 to Dec. 1922); Jan. 1923 to March 1924 Jun. Engr., with U. S. Dredge *Chinock* directing dredging operations in Chesapeake Bay, Va., and (Oct. 1923 to March 1924) in charge of parties on survey of Inland Waterway from Norfolk, to Beaufort Inlet, N. C.; since April 1924 Jun. Engr. and Asst. Engr. preparing abstracts of title, deeds, etc., for rights-of-way, preliminary examination and survey reports for rivers and other inland waterways. *TT 6.3: SP 0.3: P 6: RC 3.9: D 0.5. TT 13.7: SP 6.7: P 7: RC 4.9: D 0.5.* Refers to W. T. Howe, C. L. Mann, F. A. Pope, J. Shlessinger, S. H. Yonge.

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(2) **PAULSON, FREDERICK HOLROYD**, Jun., 142 Cleveland St., Providence, R. I. (Elected Dec. 15, 1924.) (Age 29. Born Cranston, R. I.) 1920 B. S. in C. E., Brown Univ. *TT 2: SP 2.* July to Sept. 1919 Rodman and Transitman, Providence Water Supply Board, on Schuette Reservoir. Dec. 1924 April 1925 Asst. Engr. with Buck & Sheldon, Inc., Hartford, Conn., designing reinforced concrete for industrial plants. *TT 0.3: P 0.3: RC 0.3: D 0.3.* June 1920 to Nov. 1924 Draftsman and Asst. Engr., designing structural work for industrial plants, and April 1925 to date Asst. Engr. planning structural and architectural work, designing and checking construction drawings, with F. P. Sheldon & Son, Providence. Since April 1925 also Structural Engr. with Oresto Di Sala, Archt.; designed and supervised structural work of Columbus Theatre, including stores and offices, reinforced concrete, structural steel, etc. *TT 6.5: SP 1: P 5.5: RC 5.5: D 3. TT 8.8: SP 3: P 5.8: RC 5.8: D 3.3.* Refers to H. R. Buck, H. W. Congdon, G. H. Henderson, J. L. Murray, I. W. Patterson, P. Sheldon, P. R. Williamson, S. Wilmot.

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(1) **TURK, MILTON**, Jun., 941 Rogers Pl., New York City. (Elected March 12, 1923.) (Age 27. Born New York City.) 1919 A. B., and 1922 C. E., Columbia Univ. *TT 2: SP 2.* June 1922 to May 1924 Engr., Kalman Steel Co., New York City, drafting, estimating, designing and detailing reinforced concrete buildings, some supervision. *TT 1.9: SP 1: P 0.9: RC 0.6: D 0.3.* May 1924 to April 1925 Constr. Supt., Flogus Realty Co., New York City, in charge

of construction of two 6-story elevator apartment houses (\$1 100 000). TT 0.9: P 0.9: RC 0.9. April to Oct. 1925 Designer, Gunvald Aus Co., New York City, making layout of framing and designing structural steel for apartment hotels and loft buildings; designed a reinforced concrete hotel. TT 0.4: P 0.4: D 0.4. Oct. 1925 to April 1926 Engr., Commonwealth Eng. Corporation, New York City, designing, estimating, detailing reinforced concrete buildings, some supervision of construction. TT 0.6: P 0.6: RC 0.3: D 0.3. April to July 1926 with Melrose Concrete Co., New York City, as Estimator of concrete arches and cement finish work for fireproof buildings, also Solicitor. TT 0.3: P 0.3: RC 0.3. July 1926 to Jan. 1927 Constr. Supt., Flow Constr. Co., Bronx, N. Y., in charge of construction of a 5-story apartment house (\$350 000). TT 0.6: P 0.6: RC 0.6. Jan. 1927 to date Archt.-Engr., Bronx, prepared architectural and engineering plans and specifications for a garage. TT 0.3: P 0.3: RC 0.3. TT 7: SP 3: P 4: RC 3: D 1. Refers to A. H. Beyer, H. F. Butler, T. Holst-Grubbe, W. J. Kupec, M. P. Van Buren.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.